# MPUTERW

CEO Change Gives Novell New Hope

Users praise Hovsepian but say big challenges await him

Novell Inc.'s ouster of Chairman and CEO Jack Messman last week may have been sudden, but it didn't shock many Novell users or indus-

try analysts, who were unequivocal in praising newly appointed

CEO Ron Havsepian. In addition to the words of praise, though, they pointed out that Hoysepian faces major challenges in trying. once and for all, to turn Novell around Even

Novell localists said that the software vendor continues to be plagued by declining revenue, weak marketing, resource limitations and an inability to capitalize nn its acquisitions of SUSE Linux AG and other Linux-oriented

worder "Novell is not Micro. soft - they don't have

the capital resources tn support so many products," said Brent Biernat, assistant vice president of network services at COCC, an Avon Conn based

### **Apps Project Vexes Colleges** Rollout breaks budget, misses deadlines

The II-campus North Dakota University System continues to work on a troubled rollout of PeopleSoft FRP and academic software that critics said has exceeded its budget and missed deadlines. The Web-based system.

based on Oracle Corp.'s Peo-

pleSoft Enterprise 8 software. is known as ConnectND and handles academic tasks such as grant and contracts manhuman resources functions. The effort to date has been "a train wreck," said Gerald

agement, as well as payroll and Groenewold, director of the PeopleSoft, page 14

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company that provides techpology services to banks "They are going to have to make some hard decisions that will likely make some customers unhappy."

But Hovsepian is better suited to the tasks ahead at Novell than Messman was, said Biernat who has met with the new CEO five times since Hoyse-Noveli, page 49

### Cisco Eyes Pricing on Software

Chambers says company may reduce bundling

DY MATT HAMBLEN Despite criticism from some customers about Cisco Sys-

tems Inc.'s pricing, CEO John Chambers said last week that the company may not be charging enough for its technnlogy and needs to modify its practice of bundling software with its networking hardware. "We need to evolve our

software strategy," Chambers said during a roundtable discussion with reporters at the Cisco Networkers 2006 user conference here. "We have a Cisco, page 16

as the hype suggests.

# IBM.





### \_THE INVASION

\_DNY 16: These servers are so hot, we're running the AC at full blast, and the thermometer is still pushing 140. Hod to relox the dress code in the server room. No choice. It's towels and flip-flops until me get this heat problem under control.

\_Gil says he's last a lot of weight. I hadn't noticed.

DAY 17: I found a cooler answer to our heat problem: the IBM BladeKenter" with Intel\* Xeon\* Processors reduces the overoll amount of power required by the system. The BladeKenter is designed to respond automatically to power events and can use up to 37% less energy! Less power, Less heat, Less money.

\_Oh, apparently HR had a problem with the dress code but couldn't call and tell us, since the phones had melted.



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# ONTENTS

06.26.06

Speed Readers

in the Technology section: Stream processing tools can monitor large amounts of data from multiple sources and react in real time. Here's why they're catching on in financial services and beyond. Page 23



### What Do Users Want?

is the Management section: There's more than one way to collect user requirements, say IT professionals like Susan Burk of Massachusetts Mutual Life Insurance. The more methods you know about, the better your results will be. Page 40

### NEWS

6 Ohio University overhauls its IT operations and suspends two technology managers following a series of security breaches.

8 IT firms that place want ads face legal challenges from a programmers' advocacy group.

O JPMorgan Chase spearheads an effort to develop an open messaging protocol that could challenux IBM's WebSphere MO.

Austin Energy's first SOA appli-cation processes 20,000 calls a day during a major storm.

12 Florida's state auditor finds security holes in the state's voter registration database

12 A federal judge dismisses a that was seeking reimbursement for the costs it incurred reissuing credit cards after a data breach at BI's Wholesale Club in 2004.

13 New rules poverning discovery of electronic documents in civil litigation could place a burden on IT departments.

18 Blobal Dispatches: The Europlan to overcome a court ruling that invalidated an agreement requiring airlines to share passen ger data with U.S. authorities.



18 Q&A: Red Smith, as 18M, talks about a prototype tool set IBM has built to create so-called mashup applications.

### TECHNOLOGY

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### computer system 32 QuickStudy: MDA. Model Driv-

of writing specifications using platform-independent system models in the software development process

22 Security Manager's Journal: Too Secure, C.J. Kelly takes inventory of what's been done to secure her state accrecy's network and assesses what lies ahead.

# MANAGEMENT



Despite waves of IT graduates from Chinese universities our correspondents on the ground in Shanghai say that a good IT profesrional is based to find, and good IT managers are even scarcer.

42 Managers' Perum. 1.... low proper communication chap nels, and the IT liaison is feeling left out of the loop. Paul Glen offers some insights and suggestions. He also considers what to do when a peer IT manager is

abusing his people.

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10 On the Mark: Mark Hall reports thinks the role of CIO is become ing extinct because of the growing number of IT-sayvy business



20 Don Tonnant thinks Bill Gates' working at the Gates Foundation rather than Microsoft is worthy of lots of attention - but not be-

cause of its effect on Microsoft 20 he's looking for in a laptop. Michael Gartenberg finds what

34 Douglas Schweitzer says encrypting e-mail should no longer be ontional

44 Barbara Comolski contends that IT assets need to be care fully tracked, since what they contain is for more valuable than the hardware itself 50 Frankly Speaking: Frank Hayes may be evolcal, but he has de-

vised a way to squeeze IT security dollars out of your stiney CFO. DEPARTMENTS/RESOURCES

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Why Isn't Europe Suffering a Wave of Data Breaches? SECURITY: Privacy columnist Jay Cline looks at the disparity between the U.S. and the FIJ when it comes to the inadvertent release of personal information.

### **Get Ready for Linux**

ERATING SYSTEMS: Planning a migration? Take a look at this detailed questionnaire from Unix to Linux Porting: A Comprehensive Reference, by Alfredo Mendoza, Chakarat Skawratananond and Artis Walker (Prentice Hall. 2006). It's designed to help you make sure you have all the information you need when making the move to Linux.

O www.computerworld.com/softwar

Bracing for the Next Katrina NETWORKSHIE: IT pro Greg Schaffer was

the event of a disaster. Read about how he did it. O www.commuterworld.com/net Pack In Those Access Points

MORILE/WIRELESS: Columnist Craig J. Mathi explains dense deployments, which he believes are the key to eventually replacing the wired infrastructure with wireless LANs.

# Listen to Learn About the Latest Storage Trends

POBCAST: Hear about the effect the new e-discovery rules could have on your storage needs. Plus, find out about the role the porn industry is playing in the struggle between competing high-definition DVD formats. () www.sampaterworld.com/blogs/

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letel Corp. CEO Paul Otellini last week said that the company is planning further restructuring in response to weak earnings in

recent quarters, but it likely won't

disclose details until next mon

targets and lost market share

Devices Inc., has shut down an

optical platforms division and

groups as part of a cost-cutting

Eclipse to Update 10

Projects This Week

The Eclipse Foundation this Fri

of 10 of its open-source projects

in an effort to synchronize yer-

son compatibility. The so-called

updated versions of the Ecilos

business intelligence and report ing tools, modeling framework,

Web tools platform, visual editor

test and performance tools, and C

and C -- integrated development

Oracle Cites Larg

Deals in Strong 04

Oracle Corp. executives cited an

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rease in the overall number of

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Calisto release will include

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total which has missed earnings

ter Advanced Mine

Breaches prompt IT overhaul, internal

suspensions and new spending plans HIO UNIVERSITY

last week said it has begun to overhoul its central IT department, suspended two FT supervisors and taken other steps following a series of security breaches, including one that exposed the Social Security numbers and other nersonal data of 137,000 people

In an announcement posted nn its Web site, the university said it also will ask its board of trustees for \$2 million in now funding to better secure its IT systems. The Athens, Ohiobased school will also develop a university wade stratewic plan for IT an effort that will be rountly led by CIO Bill Sams and its chief financial officer. Rederick I McDavis Obio University's president, said in a statement that he was "angry [about] and embarrassed by the IT security lanses "While

we cannot correct mistakes of

the past. I am determined that

the university will learn from

these oversights and make the

appropriate changes," he said. The measures now being nut into effect at the school are better than doing nothing at all, said Pete I indstrum an analyst at Spire Security LLC in Malvern, Pa. "But wouldn't it have been nice." Lindstrom said, "if they had gotten relivion before all this honored? School officials should have paid the same level of attention to IT security before the breaches occurred that they are now Lindstrom added

The frustrating thing about security is that folks are owful at preparing for future uncertainties but used at addressine post improvedence " he exid Sams couldn't be reached last week for comment on the changes being made at the university. The various steps were recommended by Moran Technology Consulting LLC. a Naperville Ill-based firm that was hired to audit the school's IT security practices ofter three breaches more discovered in late April and early May. Moran then discovered

turn additional broads a while conducting its present After receiving the audit report, the university suspended its director of communication network services and its manaper of Internet and systems. pending the completion of a disciplinary investigation The two supervisors "will be erovided an opportunity to respond to the findings of the propert prior to a final determination that could include

termination," the school said

in its sunresporment Two consultants have been bired on an interim basis to suggested the control IT was asyment team. The university said at his also empted the position of chief of staff to the CIO although that job has yes to be filled. Meanwhile, three workers who were placed on administrative leave in early May will be allowed to return

to work based on the findings of the security review The restructuring of the contral IT department is designed to establish Telegr roles responsibilities and accountabilities" for staffers and ensure that security is properly

provided at both the central

www.computerworld.com

and distributed levels, the university said. By month's end it mated, more than 90%, of its central IT workers will be affected by the restructuring As nort of its response to the breaches, the school said it will deploy real-time and scheduled virus-protection capabilities on every Windows based comes it will also audit all server accounts to determine whether any have been compromised and verify that password enforcement, complexity and length

requirements are in place.

# ies and profit growth in the meany's fourth frical counter

### SAP Employees Elect Workers' Council

SAP AG employees have elected a rkers' council, ending the company's reign as one of the largest man employers without such a group to represent workers in sions with managem arly 65% of the software iker's 11,000 employees tu set to elect 37 mombers to the cil. The council will elect a nan on July 3. SAP man

List of Data Breaches Grows breach notifications shows no six of abating, with companies such

adding themselves to the list of busi es disclosing data compror New York-based A/G this week plans to start notifying about 970,000 people of a server theft the potentially could compromise their onal data. A password protect ed file server containing insurance information submitted by brokers. on behalf of various employers was stolen from mode a locked room at an AIG facility on March 31, said

as American International Group

cay. It has taken the incurance and financial services firm until now to determine exactly what information inc. and ING U.S. Financial Services the server contained. Murray added In Washington, a leptop PC containing the Social Security numbers and other personal data of

some 13,000 District of Columbia government workers and retirees was reported stolen on June 12, ap parently having been taken during a equipment to eccod odd to errolence of ING U.S. Financial Services. The Affanta-based unit of ING Gross MV ages the district's employee

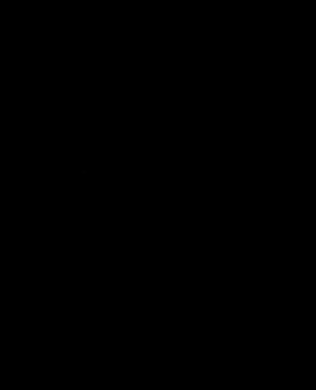
A spokeswoman for the District of Columbia's chief financial officer said that the data on the lepton ween't encrypted and the mach wasn't password-protected. A polic investigation into the theft is on ing the spokenwomen added NG said in a statement that I

is "aggressively moving forward with a comprehensive confirmat process (so) that all of our inotions meet our encryption and pass protection policy requirements," in addition, the company said it has implemented an immediate policy to restrict any lepton from being ex posed to the public domain until it's

stern Minois University in

Miscomb was let by a recent security breach in which multiple servers were hacked, resulting in the poten tal compromise of the names, credit bers of up to 240,000 anothe The system break-in was discover on June 5, eithough WIU has just begun notifying affected individu Our first efforts were focused on fixing the breach and taking school said in a statement. The process of determining the numb of records actentially wowerf and preparing mailings has taken longer

> - THIKIIMAD VUIAYAM AND TODO R. WEISS



Intel Cuts to Continue intel Corp. CEO Paul Otellini last ok said that the company is ne further restructuring nse to weak earnings in nd counters, but it likely won't se details vertil next month ratel, which has missed or its and lost market sh titor Advanced Micro al nistforms division and ned two flash memory s as part of a cost-co a stanuared in Anel

### se to Undate 10 cts This W

day place to unveil new rele in an effect to se ed versions of the Ect

### **Oracle Cites Lar** eals in Strong 04

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65% of the sol out to elect 37 med

AT DEADLINE School Out to Improve Its Marks on Security

### Breaches prompt IT overhaul, internal suspensions and new spending plans

HIO UNIVERSITY last week said it has begun to overhaul its central IT department, suspended two IT supervisors and taken other steps following a series of security breaches. Including one that exposed the Social Secu-

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and distributed levels, the university said. By moreh's end. it noted, more than 90% of its central IT workers will be affected by the restructuring. As part of its response to the breaches, the school said it will deploy real-time and scheduled virus-protection capabilities on every Windows-based server, It will also audit all server accounts to determine whether any have been compromised and verify that password enforcement, complexity and length requirements are in place.

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List of Data Breaches Grows



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# Group Targets IT Job Ads Seeking H-1B Workers

Programmers Guild hopes to spur enforcement of discrimination laws

--advocacy group last week said it is filing complaints with the U.S. Department of fustice against more than 300 IT services firms that it claims are discriminating against U.S. citizens and permanent residents by placing help-wanted ads seeking workers who have H-IB. L-I or student visus net the on U-10 condidately

John Miano, founder and treasurer of the Summit. N.L. based Programmers Guild said be thinks ads expressing a preference for H-1R holders in particular have become widespread because of a lack of oversight by the U.S. govern mens Such mareletions on tile. gal under the Immigration and

Nationality Act, he claimed. "These len't much onforce ment going on," Miano said. So we are trying to do what we can do to bring private enforcement against these employers." He added that about 100 com-

### plaints have been filed so far Typo or Discrimination?

One of the largest companies targeted thus far is iGate Mastech, a Pittsburgh-based software services firm and IT staffing agency with about 1.000 employees, one-third of whom are H-18 visa holders. Last week |Gate Mastech rooted an ad on Dice Inc.'s online IT iob board seeking Java developers. The job description included this language: "Only

looking for Half visse About 10 other ads placed by the firm on Dice's site didn't have similar language according to a spot check by Commuterworld The iCote Mastech recruiter listed as the contact for the Java job openings called the H-1B wording in that ad a typo.

But Murali Balasubraman

seem the firm's contor size persident of human resources. and recruiting, said that the ad was placed for a large client that first tried to him [15] ciri. rent and normanest residents and was unable to do so When companies "cannot find suitable candidates," he said. "they come to szaffine companies like us and say. 'We haven't been able to find a local citizen here. Can you now

Rujiv Khanna, an immigra-

tion attorney in Arlington.

potices of complaints from the DOL has posted a brief advisory on his Web site. "The changes allege that these employers placed ads inviting only nonimmigrants to needs." the advisory reads, "Please stop all such advertising. [The] DOI is likely to take discriminatory ads very seriously." Citing the ongoing work he

communies that have received

is doing for his clients. Khanna declined to discuss the advisory or the issue as a whole DOI officials had yet to respond to a list of questions

about the ads by press time. The complaints underscore

ness today because there isn't

an open transport emetocol."

the lone-simmerine battle over the use of visas to bring foreign IT workers into the U.S. Supporters of the H-1B program include Christopher Carter, CFO of Carter Consulting Inc., a Milwaukeebased company that provides third-party support for SAP systems. Half of Carter's 22 full-time staffers are H-18

holders, and some of the contenes much on he also selles on have vises as well Visa bolders are needed to cover a shortage of SAP support expertise in the U.S.. Carrer said, adding that he hires the most qualified peop for positions and pays bis H-IB morehous substitution and bounder at the same levels that other

full-time employees receive. Carter said that in seneral H-1B holders are less likely to move to other jobs and are more willing to work extra

hours on projects than their U.S. counterparts are. "They ore foreign our U.S. people to step to the plate more," he said. While Carter sees merk to the H-1B program, Richard Harris has been writing to members of the U.S. Congress from his home state of Arkansas to uree them to vote against raising the annual cap of 65,000 H-1B visus.

Harris said that several years ago, he was facing a layoff at a company be asked not he named. He saw an internal job posting that his database skills qualified him for her it was limited to H-IB bolders. Harris, who now works at a bioinformatics firm, said there are plenty of U.S. residents who could fill IT job vacancies. But, he claimed, employ ers hire H-IB workers to save money. "Let's put the real reason out there," he said.

IPMorean Chase & Co. Cisco Systems Inc., Red Hat Inc. and five other organizations have formed a working group to create an open-standard messaging protocol that allows interoperability among various messaging and Web services technologies. The Advanced Messas

Questing Protocol, or AMOP will interoperate with exist ine specifications such as lava Message Service (IMS) SOAP WS-Security, WS-Transactions and others, executives from the AMQP Working Group member companies said during a conference call last week The group downplayed potential competition between AMQP and existing messag ing formats, including IBM's dominant WebSphere MQ

integration technology John O'Hara a vice president and distinguished engi-

neer at JPMorgan, said that because AMQP defines a model for routing and storing queuebased messages and offers a network-wire-level protocol, is can complement any messaeing formst, including proprictary ones like WebSphere MQ.

### Open Messaging Protocol May Challenge IBM's WebSphere MO "There's a lot of awkwardon a full 1.0 version, which will

O'Hara said. "[AMQP] makes it possible to plue that eae." Aggressive Testing IPMorean has already rolled

out an AMQP-based trading system for 800 users on five continents, based on a test version of the protocol. The system runs in three data centers with Windows, Linux, and Solaris-based hardware running applications written in Java, C# and C++, O'Hara

"This is an aggressive testbed," he said, "It's not perfect We're not arrogant enough to say we've not a complete solution yet. But we sent the heavy cavalry across the bridge first

to see if it would break, and it didn't break." New York-based (PMorean had started work on the protocol on its own prior to spear-

heading the formation of the AMOP group. IPMorgan and the working group have completed work on

Version 0.8 of the specification. Within IS months, the group hopes to finish development

he published under an open and myaky-free license. At that time, the working group will also present the specification to an as yet undetermined standards body IBM's WebSphere MQ

held \$1.3% of the messaring market in 2005, according to WinterGreen Research Inc. in Lexington, Mass. Other messaging formats include the proprietary WebLogic Server IMS from BEA Systems Inc. and open-source technologies such as OpenIMS from The

OpenIMS Group or MantaRay from Coridan Inc. usine WebSohere MO as an Ron Schmelzer an analysi

We're not arrogant enough to say we've got a complete solution vet. But we sent the heavy cavalry across the

bridge first to see if it would break, and it didn't break.

JOHN O'HARA, VICE PRESIDENT EMORGAN CHARE & CO.

# at ZapThink LLC in Balti-

more, said that AMQP could prove to be a threat to existing messaging specifications if it can deliver on its promise of providing a cheaper, less complex and more beterogeneous

alternative \*From a mind-share nerspective, with regard to messaging and interop standards for sure I think AMOP will be

seen as a potential alternative." Schmelzer said Karla Norsworthy, vice president of software standards at IBM, said customers are already well served by

interoperability technology. "The number of connectors we already have is hours " she said, "We think AMOP is less about how to get interoperability among unlike protocobs than a proposal to simply in-

vent a whole new messaging infrastructure." Other members of the AMOP consortium include software providers Envoy

messaging and Web services Technologies Inc., I Matia Corp., 29 West Inc., Iona Technologies PLC and Twist Process Innovations Ltd.



# Where Can You Turn for a Total Solution?

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HP Dissolves Global Ops to Cut Costs Hett-Packard Co. will dis ve its Global On sization and delegate its lies to three business un the Imaging and Printing Group the Personal Systems Group and the Technology Solution um HP autin rated that the tructuring, which may inci

Ats by \$1.9 billion arms

### he restructuring is slated to be sted by Oct. 31, which is the end of HP's focal year. **EMC Buys Content** Management Firm

EMC Corp. has acquired Pro-Activity Software Solutions Ltd., a content man are provider, for an un of amount Durdethick nent EMC's um BPM package. The tion of ProActivity into EMC should be complete by the die of next year with the duled shipment of the next cumentum upgrade.

### erizon Savs Vonago Violated Patents

Verizon Communications Inc has filed a lawauit against Von age Holdings Corp., claiming th es in its voice-ever-IP sys izon is seeking an injus ting the continued use ologies as well as ent for damages. Vona id that only proprietary and velop the VolP services.

### Microsoft Gives S1M To Slavery Victims

resoft Corp. is departing \$1 million to several groups in Asia that are battling the modom human slove trade, in an effort to curb the practice and ne attention to the issue. The mesia, the Philips ore and Thalland, will be d to train victims in IT shifts

# **C** ON THE MARK



# So Long, CIO. It was fun

... while it lasted. The lone rise from data processing manager to the corner office and C-level title may be coming to an end, especially if your company is in financial services, publishing and other informationoriented markets. "To the extent that your business is information, you have no need for a CIO," contends Charles Stack, CEO of Flashline Inc., a Clevelandbased vendor of service-oriented architecture tools

Stack angues that business professionals are rapidly becoming fluent users of IT and that these end users understand how to alien IT with the businose inst se well se s CIO does, Given that, Stack wonders whether tinue to separate IT from

husiness units "If I run aline of business that is informa tion-based, I want the tech group to report to me, not a peer," he says. Although Stack won't predict when ClOs as a group will become extinct, he does say that their glory days are behind them

### Java generates jingles in Sun's pockets . . .

... in three ways. Jonathan Schwartz, Sun Microsystems Inc.'s new CEO, has promised to soon reveal the mystery of how much money his com-

pany sets from lava a number that Wali Street is keen to learn because lava offers Sun its most distinctive technology advantage over competitors According to Jim McHugh, senior dipartor of software portfolio strategy at

Sun, Schwartz will be looking at three key areas to determine the resenue number First makers of cell phones handheld devices and other hardware products fork over an upfront license fee for Isva and make another payment to Sun for each Invariously unit they sell. Sun also gets cash from training develop-

ers to use lava. And the company sells its McHugh argues that lava's market position is improving among developers, citing last



NEWS AND INDUSTRY BUZZ BY MARK HALL month's total of 25 million downloads of the software

HOT TECHNOLOGY TRENDS, NEW PRODUCT

from Sun's Web site — up more than 25% from the levels during last year's second quarter. But no matter how impressive the revenue tally that Schwartz ultimately unwrite is, what investors and Sun users would really appreciate is a positive number on the company's bottom line.

# Send your workers anywhere with . . .

duse's mobility softwa sults. This summer, Sybase Inc.'s iAnywhere Solutions Inc. subsidiary will be teasing out the first modules in its Information Anywhere Mobility Suite. According to Sean Mc-Cleary, a senior product manover at i Anywhere the mite gives IT departments more control of mobile devices les e-mail component, due at the end of July, integrates more than 130 different models of handhelds with Exchange. Notes and GroupWise mail servers. A device management tool that's scheduled to ship in August will let IT control the software that end users are allowed to run on mobile devices and remotely update approved applications. And in September, Dublin

Calif-based iAnywhere plans to release a security tool offering password protection. encryption of stored and sent data, and remote "killing" of devices. Pricing for the suite

### starts at \$100 per device. Make e-mail security easy for . . .

corporate security policies on messaging, you won't be all that secure Security is not easy to use," says Janacek, who's chief technology officer at Certified-Mail.com Inc. in Mo ristown, N.I. Security



software then has to be drop dead simple fanacek says his company's namerake soft ware, which can be hosted as a service or licensed for

on-premises use, lets IT managers set policies that enforce corporate security rules. That means end users don't have to make decisions such as whether to encrypt messages. Certified-Mail can also be used in place of FTP servers because it can transmit files of up to 2GR An undate being released

this week lets users reply via e-mail to RSS feeds - all within a secure, encrypted context. Janacek says. Pricing starts at \$99 per seat annually.

### A unified approach to compliance... min regulations require Deepak Taneia, CEO of

Aversa Inc in Waltham Mass., disdains vendors that tack on "compliance" as a claimed feature in products

simply because the tools monitor one technology or another You need to build compliance moni-

toring from the ground up, Taneja argues. He says Aveksa Compliance Manager. a software product that's scheduled for release in

late July, does just that. The software is designed to monitor and report on end-user violations of a company's full burden of compliance obligations. It understands every user's identity and application access rights and can tell if unauthorized changes have occurred, Tapeia says, Priciner starts at about \$75,000 a

# **SOA App Quickly Boosts Storm Response**

First app in Austin Energy SOA project processes 20,000 customer calls a day

BY HEATHER HAVENSTEIN On May 3. Andres Carvallo CIO at Austin Energy, joked that a spring storm was needed to test the first, newly installed application to run on the electric utility's serviceoriented architecture (SOA) At 9 p.m. the next day. Car-

vallo got his wish as a severe rain and hail storm rumbled through Austin, leaving 52,000 customers without electricity and putting the new AECall application into action only a day after mine into production AECall, which links the

Austin-based utility's cutsor management system and call center application, processed more than 20,000 calls per day for three days during the storm. The previous callprocessing system would have been overloaded at 4 000 calls per day "Lo and behold" Carvallo said, "we tested the system" and it worked

The application was the first to emerge from a plan initiated more than two years ago to build and use an SOA to integrate applications that soan the utility's five divisions. he said. At the same time, the new system will eliminate redundant legacy systems.

### Carvallo added IBM Tools Put to Use After a first stab at building

an SOA failed, Austin Energy nine months ago started using IRM's Pational development tools to re-engineer all of its 72 major business processes to be tied into an SOA. The comnany is also using IBM Rational tools to help model and build new business processes to be linked to the SOA. IBM's Web-Sohere middleware is used to

run the services "The SOA is driving everything we do at Austin Foregram Carvallo said. "It touches every major enterprise application."

The new AECall application. for example, uses five different Web services to more the multiple databases where data about customers is housed and to reconcile that information for the outage restoration application be said

The utility is now building The SOA is

driving every ing we do at Austin Energy, It touches every major enterprise application

ANDRES CARVALLO, CO.

ALISTIN EMERGY

which will use Web services to link generaphic information system maps to the application its 600 mobile crews use to respond to customer calls. That project is scheduled for completion before the

end of this summer, according Before working with IBM. Carvallo said, the company made \*some unfortunate mistakes" working with another wonder on the ending failed effort to build an SOA. He

to Carvallo

declined to name the other Carvallo blamed the early failure on the lack of an initial hard-and-fast focus on busi ness processes and a lack of adequate support and services from the undisclosed vendor.

In addition, the company's previous "boil the ocean" integration strategies were driven by IT rather than the business,

"This one is businessdriven," Carvallo said, "This time around, when the business process is at the beart

of the integration, change management happens much essier became the business user wants it to hannen. It is not really an SOA if it doesn't involve business process

innovation." Carvallo declined to disclose the cost of installing the SOA but he said that it won't he more than the cost of maintaining the legacy systems that the SOA will eventually poplace.

Ken Vollmer, an analyst at Forrester Research Inc., said that companies interested in boosting the efficiency of busishouldn't mention the term to its hysiness users

He said that IT should work with business users on a "business neocess management improvement effort, and that will be the impetus for an SOA."

Vollmer also noted that Austin Energy started its latest SOA effort with the outness application, which could show a guick and visible improvement in call processes, "Even if you have a base effort in total." Vollmer added, "you need to pick off a small piece that can show value."

nomore 6am9pm

# Auditor's Report Criticizes Florida's Voter Database

State agrees to fix security wees that could lead to manthorized access

---STORIDA VOLLE DOS estration data can be vulnerable to theft, cormention or authorized access and alteration, despite the best efforts of elections officials indicated a report by the Florida auditor general this month by Auditor General

William Mouroe, found several IT security problems with the state's central voter registration database "There were some procedures that were massing we felt needed to be in place? noted Jon Ingram, an IT audit manager in the Florida auditor

general's office and a contributer to the report. For instance Ingram noted that the review of the system found that a state worker was erroneously given access to the database and that a worker whose contract was finished

mistakenly retained access. The Florida Voter Registration System (EVRS) database was created by Secretary of State Size Cobb's office to comply with the federal Help

Amorro y Vote Act. HAVA mandates that every state create a centralized voter information repository to, among other things, protect against election fraud. Work on the project started in 2003, and the datahave was rolled out in January

The auditor's report recommends that Cobb's office create a set of security procedures to belt county elections of licials ensure that FVRS data is protected from unauthorized access. The report also calls on the state to establish virus-Protection, each management maintenance and system re-

covery policies. "A critical system could be secure today and vulnerable tomorrow because of software changes, and the vulnerability goes down even to the work station level, which could have an impact on the whole network," said Ingram. Dawn Roberts, head of the

Florida Division of Elections. said that the renort shouldn't cause undue concern amone the state's voters. She noted that the division requested the audit to help ensure the system's security "There's nothing in the audit to suggest that FVRS is compromised,"

she noted Roberts added that a riskassessment effort is shared to be completed by the end of June and that a governance

model is also being developed One county elections official said that some of the problems unearthed in the audit may be more serious than state of first between

Leon County Elections Suthe auditor's report indicates serious problems" with the security and integrity of the sys tem that could take significant time to fix. "The first election

is around the corner, and they have not been able to iron the bucs out of this. I'm acting very concernat "Sancha said Consultant Paula Hawthorn a former database executive at Hewlett-Packard Co, and other

vendors, said potential security and data-integrity problens with weer registration databases are bandly unique to Earlier this war. Hawthorn

chaired an Association for Computing Machinery com mittee that examined the state of voter registration databases. The group concluded that the voter registration database plane of a pumber of status lack adequate security measures &

### Voter Database Security Questioned

THE CREATION OF statewick yeter databases as mandated for all states by the federal blain America Note Act could not a manufable privacy roles, some advocates and

"The Help America Vote Act mandated that all states create contrained statewide voter registorion databases but it dufn' mandate any protections for that data," sauf Kim Alexander menident and founder of the California Voter Foundation, a nonomit voteo

technology watchdog group. When pecale reaster to yole in the U.S., they are required to provide personal information, such as date and place of birth and current residence, which could be used by identify thiowes, she said Such personal information will be stored in each state's voter database Freddie Oakley, clerk recorder for

that a loss of local control could diminish the security of voter deta-The data I have collected and leef some responsibility for is now

out of my hands," she said. "I have zero control over what happens once it's in the custody of the secretary of state. We do know that nobody is excellent at managing databases with respect to privacy. A spokeswomen for California Secretary of State Bruce McPherson said that the state's voter database is adequately contected against up surhonzed access and data theft.

The (voter registration) databa is entirely implemented on a dedicat ed private network, including state owned, dedicated workstations for data exchange with counties," she said "Servers workstations and network components are headered to industry standards and verified by remain scarcence and analysis.

- MARCI SONGINI

# Yolo County, Calif., said she lears Judge Dismisses Data Breach Lawsuit

Credit union fails to recover cost of reissuing cards

BY JANKUMAN YUMYAN Security agalysts often warn that companies hit by data breaches could find themselves becoming the targets of lawsuits over their alleged IT security failures. But they for plaintiffs typically have been on the losing end of the few

cases to make it to court. The latest example is a federal indee's decision last work to throw out a lawsuit than was filed by the Pennsylvania State Employees Credit Union (PSECU) against Cincinnatibused Fifth Third Bancorn The Harrisburg-based credit

union was seeking to recover the \$100,000 it spent to cancel and reissue about 235,000 Visa credit cards that were compromised in a March 2004 security breach at BI's Wholesale Club Inc. in Natick, Mass. The PSECU argued in court that Fifth Third was liable for the costs because it processed

conditional transactions for III's and chould have uncorned that the retailer was in comeliance with Visa U.S.A. Inc.'s security remainements.

The craylit union's bayenin for breach of contract and newligence also included BPs as a defendant. But all of PSECU's claims against the retailer, and three of its four claims against 150h Third were dismissed last October by Judge William Caldwell who site at the U.S.

District Court in Harrisbury Last week Caldwell threw out the remaining claim against Fifth Third, ruling that PSECU wasn't a third-party beneficiary to the contract

hetween Fifth Third and Visa and therefore waven't entitled to seek reimbursements. \*I'm disappointed with the court's ruling," PSECU

President Greg Smith said in a comment sent via e-mail. "It's a little frustrating to know that PSECU was the one party in this situation that kept its word [and] honored its contracts. but when composes also didn't we're still the one to pay."

As a result of the BI's breach. Visa has required Fifth Third to now close to \$900,000 in fraud-related charges to several other endit cant issuers. seconding to court documents Visa has also collected more than \$550,000 in fines from Fifth Third for the latter's failare to live up to the IT security obligations in its contract. Stephanie Hagen, a spokeswoman for Eifth Third void the bank doesn't comment on

litigation issues as a matter of correspondentelliero The decision in Pennsylva nia shows that "there really is a high barrier for plaintiffs to hring these kinds of lawsuits." said Ethan Preston, an attornev at Kamber & Associates LLC in New York.

"We don't quite have the laws yet that make people liable for security as a matter of statutory law," he said. "It's unfortunate, because there is a lot of harm that can be caused because of negligent security. But if you back at the local busis behind the decision, it isn't entirely unexpected."

# IT May Face New E-discovery Rules in December

Firms installing apps, anticipating legal requirements

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New rules for electronic discovery of documents in civil cases eo into effect in December. Lack of compliance could resolt in significant penalties for companies, legal experts and executives said.

The new roles were created by an advisory committee to the Indicial Conference of the United States, which oversees administrative and policy iswere adopted by the U.S. Supreme Court on May I, said Ron Hedges, magistrate judge in the U.S. District Court in Newark.

change the rules, they will become effective on Dec. 1.

The new e-discovery rules are listed in a 300-plos page document that was created by the advisory committee.

The rules require that when two companies are involved in civil litigation, they must meet within 30 days of the filing of the lawsoit to decide how to handle electronic data. The porties most agree on which records are to be shared and in which electronic format, as mall or on a definition for the

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Life Co. in Urbandale, Iowa started using an e-mail archiving service from Fortiva part of a general corporate document-retention policy "The ability to do legal discov ery with their searching carabilities sold us on the Fortisa servicel," said Marc Comstock assistant vice president and

technical services manager at EMC National Life. The life insurance company has been using the Fortiva

service and has stored \$50,000 pieces of e-mail since Febru ary. Even so, a full-text search takes less than 10 seconds.

Comstock said. But he noted that the company can't track Web-based e-mail and instant messaring documents and therefore could ron into problems complying with en-

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Key Changes

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tems Inc., a Mountain View Calif.-based maker of software intended to belin communica create and manage global retention policies. "Anyone in istigation is going to say that

storing less data is abuses better. Retain what they need to - nothing more, nothing less." because retaining more data than required could give an opposing side more ammuno tion. Paknad said

Planning Ahead

Even organizations that may be exempt from such retention rules, such as public entities, are starting to take steps to comply with them "We know that oltimately, it'll come to pass that we'll have to be com pliant "said love Wolf CIO for the city of Santa Monica, Calif., which has a population of 93.000. Wolf said it's unclear whether the new rules will require compliance by the city To help manage possible e-discovery requests the cits is setting up a document man-

agement system using Compu-

link Management Center Inc.)

We have IM turned off We don't let them use private e-mail

JOSY WOLF OR CITY OF SANTA MONICA CALIF

Lasertiche document man spenient system and Healten Packard Co.'s Reference Informarian Startes System The goal is to help employees keep track of documents and our rid of those they don't need.

Wolf has also set on year internal rules forbidding the use of instant messagene and Webbased e-mail that can't couly be archived and tracked, "We have IM turned off We don't let them use private e-mail." he said.

Bace said that Torganizations need to look at how implementine pounds management can help corporate performance. They need to use it to some husiness advantage and not just as a business device.

The alternative is costly, Paknad noted, Previously, "it didn't cost you tens of millions if you screwed up " abound "Now it will." .

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unified communications, powered by cisco.com/nomore



# Auditor's Report Criticizes Florida's Voter Database

State agrees to fix security wees that could lead to unauthorized access

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The latest example is a federal judge's decision last week to throw out a lawquit that was filed by the Pennsylvania State Employees Credit Union (PSECU) against Cincinnati-

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laws yet that make people liable for security as a matter of statutory law," he said. "It's unfortunate, because there is a lot of harm that can be caused because of peeligent security. But if you look at the legal basis behind the decision, it isn't entirely unexpected."

# 

### Firms installing apps, anticipating legal requirements

BY SHAPON FIRMER New rules for electronic discovery of documents in civil cases an into effect in December, Lack of compliance could result in significant penalties

for companies, legal experts and executives said The new rules were created by an advisory committee to the Iudicial Conference of the United States, which oversees administrative and policy is. sues for federal courts, and were adopted by the U.S. Supreme Court on May I, said Ron.

Hedres, magistrate judge in the U.S. District Court in Newark Unless Congress acts to change the rules, they will become effective on Dec 1 Hedges said.

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Calif.-based maker of software intended to help companies create and manage global retention policies. "Anyone in litigation is going to say that storing less data is always better. Retain what they need to

- nothing more, nothing less," breause retaining more data thao required could give an opposing side more ammunition, Paknad said

### Planning Ahead Even organizations that may

be exempt from such retention rules, such as public entities. are starting to take steps to comply with them. "We know that ultimately, it'll come to pass that we'll have to be compliant," said fory Wolf, CIO for the city of Santa Monica, Calif,, which has a population of 93,000. Wolf said it's unclear whether the new rules will require compliance by the city

To help manage possible e-discovery requests, the city is setting up a document management system using Compulink Management Center Inc.'s "Now it will."

# don't let them use private e-mail

JOSY WOLE CO. CITY OF SANTA MOMPA CALIF

Laserfiche document manasyment system and Hewlett-Packard Co.'s Reference Information Storage System. The goal is to help employees keep track of documents and over rid of those they don't need

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The alternative is costly. Paknad noted. Previously, "in didn't cost you tens of millions if you screwed up " she said

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### Nugent Is Named New CTO at CA CA Inc. has named Al Mugeni to replace Mark Barrenechea

as chief technology officer, and longtime company veterar Sam Greenblatt, previously sensor vice president of technology. was named senior vice presu of innovation. Nugent will retain oversight of the vendor's Uni renter enterprise systems may agement unit until a successor is named. Barrenechea left CA last nth to join investment firm Garnett & Helfrich Capital.

### Sun Ships Beta Of Java SE 6

A beta version of Sun Mice tems Inc.'s Java Standard Edition 6 technology is available for download. Java SE 6 incorpo rates Java DB, which is the Sun orted distribution of the open-source Apacha Derby Proj ect, and part of the NetBeans GUI Builder, Stated for final release this fall, it was droved by Sun engineers and more than 330 external developers.

# **IBM Unveils Contract**

Management App IBM has severiled techn that can make it possible to sice and manage IT contracts online Contracts OnLine was devel over the past two years by IBM's research organization. The Web sted application can be used out charge by IBM business artners and customers in the U.S. About 700 partners and customers have been testing

### the software. Microsoft to Sync Services of Sign-on

Microsoft Corp. is planning to some its Active Directory with its Live Web-based services to provide single sign-on capabili ties for applications and services both inside a company network and on the Web. The com will use Windows Live ID, for merly Microsoft's Passport service, to link the systems resoft would not say when the capability will be available

### **PeopleSoft**

University of North Dukota's Energy and Environmental Research Center, which develconstruence with class and it was it ronmental technologies. The nonprobt group, based up the Grand Forks campus, relies on

ConnectND for its operations. The old systems had Band-Aids, but they worked." Groenewold said. "Just vive me something that works I ComnextNDI has cost our organization a phenomenal amount of money to try and implement

The linancials software is at times unable to quickly provide account balances to customers, said Growne wold -- a task that once took minutes now can take weeks. So far the installation has cost his

organization about \$500,000 and still costs shout \$15,000 a month "To say I'm frustrated would be a significant understatement," he said.

Unique Application University officials noted that the full ConnectND application is unione because its core FRP applications any also used by North Dakota state apprecies. The ConnectND financial and human resources applications are housed in the State assertament data contes in Bismarck, and the student management applications are bosted in facilities on the university system's Grand Forky

ConnectND has cost the state an estimated \$49 mil lion - \$14 million more than originally projected - and the implementation complex incomplete. Officials did not break out the cost of the uni versity system's portion of the project but blamed problems

with that piece for the cost overruns and delays. State Rep. Bob Skarphol, a

member of the state legislature's IT committee, said the ConnectND system was first projected to cost about \$35 million, and the rollout was originally slated for completion two years ago.

# AT A GLANCE ConnectND

"Obviously we probably underestimated the costs." said Skarphol, who noted that he had expected a smoother rollout from an IT operation at an academic body He added that the state provernment's rollost of the

PeopleSoft software has been mostly smooth. The academic roftware modules, particularly a graoty and contracts management anplication, also did not perform as expected and have required extension customization cald

administrative affairs at the Biomarck-based university

"Things are not working as

was Launched in 2001, when

PeopleSoft was selected to cations, many of which were Web-based were to perform a set of legacy applications that and mainframe-based pack-

2003 she wid Glatt said she anticipates that the full rollout will be completed within 19 marche She noted that an academic pourpose application et (III needs refinement, the nortal

Glatt said university officials now cite the lack of an executive to oversee the project full time as a key reason for the implementation problems. The major mistake from Day One was not to have a full-time project manager," she said. The first full-time oversoon Laura Glatt, vice chancellor of of the project starts work this month along with a new

systemwide CIO (see related Meanwhile, state govern-

intended but much of that is due to the fact we tried to implement ton averessively with too little resources," Glatt said. The ConnectND propert

supply the FRP and academic software. The academic apeliincluded internally developed ared software. Glatt said The systemwide rollout of

the PeopleSoft academic applications was started in April

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ENERGY AND ENVIRONMENTAL RESEARCH CENTER

ment users are pleased with the system, said Mike Ressler. density CIO for North Dokuta This is a first time state youeroment and academic institution shared the implementation of one system and we've notten huge benefits from that." he said. "It's substantially cheaper than if we had bought them individually. In an e-mail, fim McGlothlin.

Oracle vice president for higher eduction applications sales said. "The project faced some complexity in an effort to meet (the) customized computing needs of the university. Oracle has not been the primary implementer of the project Ibut is] committed to working hand in hand with Ithe university system) to belo them nyalize benefits in their technology in-

### North Dakota University System Names Interim CIO

AS THE NORTH DAKOTA Uni versity System (NOUS) works to complete its troubled PeopleSof implementation, its IT operation must prepare for a new CIO who starts work today

Last month, after seven years in the post, CIO Brant Crawford arnounced plans to resign in June to pursue other professional opporturates," according to the NOUS. T came to North Dakota to mal

a difference," said Crawford via e-mail. I did that. They've out a new library system, a new administrative system and a video network that has grown more than terricid." Crawford will be replaced on an

a managing partner of Thursby & Crawford's departure, ex Associates Inc., a technology con We appreciate his many cor sulting firm in Cochran, Ga. Thurs tions to the university over a former CIO for the University Syswish him well." tern of Georgia, is slated to remain in the port until July 2008. Laura Glott, NOXES vice cho color for administrative alfo

At the same time, Bonnie N occuste vice president for lederal overnment relations in the NOUS was named deputy CIO and exec manager for the troubled ConnectND program, an effort to implement ropieSoft ERP and academic ap plications that has suffered through yes and cost overruns. Both Ne and Thursby will be based in the university nucleon's Fargo IT facility

An MOUS spokeswomen de-

There are trade-offs both Class seid. "We acknowledge the By side, that new folks have new idand a new approach. They might be looking at things a bit diffe bring new ideas to move us aboard more márkly - MARC L. SONGINI

acknowledged that the CIO's de

seid a new menager can bring el-

fresh ideas that can be introduced

into the troubled project

ture means a loss of knowledge but



# BRIFFS

### Nugent Is Named New CTO at CA

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### nett & Helfrich Capital Sun Shins Beta Of Java SE 6

A beta version of Sun M tems Inc.'s Jeen Standard Edition 6 technology is available to fownload, Java SE 6 incorner es Java DB, which is the Su orted distribution of the source Apache Derby Pro not, and part of the MetR OUI Builder, Stated for freal ase this fall, it was dove by Sun engineers and more th 330 external developers.

# M Unveils Contract

Management App BM has unveiled techno that can make it conside to sim and manage IT contracts online. Contracts OnLine was develo or the past two years by IBM's arch organization. The Webed application can be used out charge by IBM busi mers in the U.S. About 700 partners and are been been toot

### dicrosoft to Sync ervices of Sign-on dicresoft Corp. is planning to nc its Active Directory with its Live Web-based services to ovide single sign-on capabili s for applications and service both inside a con nd on the Web. The co will am Windows Live ID, for rly Microsoft's Passport service. In link the sur oft would not say wh

# **PeopleSoft**

University of North Dalors's Forevy and Environmental Research Center, which develone energy-officient and engli ronmental technologies. The nonprofit group, based on the Grand Forks campus, relies on ConnectND for its operations "The old systems had

Band-Aids, but they worked " Groenewold said. Just give me something that works. [ConnectND) has cost our organization a phenomenal amount of

money to try and implement." The financials software is at times unable to quickly provide account balances to cus-

tomers, said Groenewold — a tack that once teach -invested now can take weeks. So far, the installation has cost his organization about \$500,000

and still costs about \$15,000 a "To say I'm frustrated would be a significant understate-

### ment " he said. Unique Application

University officials noted that the full ConnectND application is unique because its core ERP applications are also used by North Dakota stare agencies. The ConnectND financial and human resources applications are housed in the state government data center in Bismarck, and the student management applications are bosted in facilities on the university system's Grand Sorke

ConnectND has cost the state an estimated \$49 million — \$14 million more than originally projected - and the implementation remains incomplete. Officials did not break out the cost of the university system's portion of the project but blamed problems with that piece for the cost overnuns and delays.

State Rep. Bob Skarohol, a member of the state legislature's IT committee, said the Connect ND system was first projected to cost about \$35 million, and the rollout was originally slated for completion two years ago.

### AT A GLANCE

"Obviously, we probably underestimated the costs. said Skarphol, who noted that he had expected a smoother rollout from an IT operation at an academic body. He added that the state povernment's rollout of the

PeopleSoft software has been mostly smooth The academic software modules, particularly a grants and contracts management acplication, also did not perform as expected and have required extensive customization, said Laura Glutt, vice chancellor of

administrative affairs at the Bismarck-based university system

"Things are not working as

intended, but much of that is does to the feet one tale 4 to 1-

> too litrle resources," Glatt said The ConnectND project was launched in 2001, when PropleSoft was selected to supply the ERP and academic software. The academic applications, many of which were Web-based, were to replace a set of legacy applications that included internally developed and mainframe-based rockaged software. Glass said The systemwide rollout of

the PeopleSoft academic anplications was started in April 2003 she raid Glatt said she anticipates that the full rollout will be completed within 18 months She noted that an academic progress application still needs refinement, the portal requires enhancement, and query and reporting canabili-

ties must be expanded. Glatt said university officials now cite the lack of so evecutive to oversee the project full time as a key reason for the implementation problems. "The major mistake from Day One was not to have a full-time project manager," she said The first full-time overseer of the project starts work

this month alone with a new systemwide CIO (see related story, below). Meanwhile, state govern-

plement too aggressively with

The old systems but they worked. Just give me something that works. [ConnectND] has cost our organization a phenomenal amount of money to try and implement.

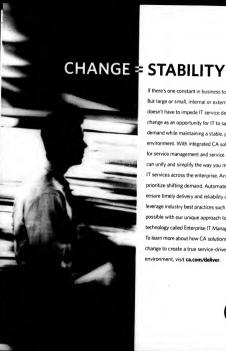
GERALD GROENEWOLD, DIRECTOR INVESSITY OF MORTH DAKOTAS ENERGY AND ENVIRONMENTAL RESEARCH CENTER

ment users are pleased with the system, said Mike Ressler. deputy CIO for North Dakota "This is a first time state government and academic institution shared the implementation of one system, and we've gotten buce benefits from that." he said. "It's substantially cheaper than if we had bought

them individually. In an e-mail, Jim McGlothlin. Oracle vice president for higher eduction applications sales said. The project faced some complexity in an effort to meet (the) customized computing needs of the university. Oracle has not been the primary implementer of the project I but is) committed to working hand in hand with (the university

system) to belo them realize benefits to their technology investments."

### rth Dakota University System Names Interim CIO



If there's one constant in business today, it's change. But large or small, internal or external, change doesn't have to impede IT service delivery. Think of change as an opportunity for IT to satisfy fluctuating demand while maintaining a stable, productive work environment. With integrated CA software solutions for service management and service availability, you can unify and simplify the way you manage complex IT services across the enterprise. Anticipate and prioritize shifting demand. Automate processes to ensure timely delivery and reliability of service. And leverage industry best practices such as ITIL. It's all possible with our unique approach to managing technology called Enterprise IT Management (EITM). To learn more about how CA solutions can stabilize change to create a true service-driven IT environment, visit ca.com/deliver.



could? Probably not." Chambers didn't disclose a Cisco spokeswoman said the

Several users at the confersome wondered whether Cisco for what many users and analysts already consider to be the

My skeptical side wonders if this is a way to raise prices.

hand. I wonder if there is some opportunity here for more pracine ontional that I don't know about

Virgin Entertainment, a Los Apreles based subsidiars of Vintin Group Ltd., uses nearly 500 Cisco voice-over IP phones and related gear in 15 stores and at its headquarters. The hardware cost the music retailer about \$1 mil-

lion and was installed We've done very well fon pricing Lbut Cisco is the Cadillac of networking "Fort said the widespread perception that users pay premium prices for the networking market leader's equipment and ser-

However usine Cisco's products instruct of rival of ferings that aren't as well sun-

increase in bandwidth, and that's

But David Siles, chief technol-

ogy officer for the government of

Kage County III. said be mountly

received requests from law en-forcement officials who want to

clics over wired and wireless con

nectors. That would allow police

officers at the scene of a crime

to transmit images to superviso

responders, Siles said.

in other locations or to other light

Kane County, which is located

s network that could be built

ion of video images. In

west of Chicago, is also contem-

eleters the installation of a much

within two years to help enable the

addition. Siles said, some taxx

ers are interested in having video

streams of county board meetings

available for playback on dermand

The Coon's case for video

more now then in the past," said

Forester Research Inc. analyst

Rab Whiteley, "Collaboration is

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ported may result in a lower total cost of ownership in the lone run Fort cold David Langford, vice presi dent of technology at Smart

City Holdings LLC in Lake Buena Vista, Fla. said he likely would be opposed to paving separate fees for Cisco's Internetworking Opensting System (IC)S) coftware and other prodserts. "It demends on

how they do it, but on the surface, I'm against it " be said Langford said that bundling IOS with Cisco's hardware makes budgeting and account

ine for networking projects easier for Smart City, a provider of communications services to convention conte Chambers made his com ments about pricipe after be was asked whether Cisco charges too much for its provinote and services. In response,

he said that customers have long benefited from performanos increases "Ose shims

we haven't done well " he wided, "lisl we haven't charged for software with ongoing fees." Cisco lumes what it charges for much of its software into

the cost of maintenance contracts. Chambers said, adding that the company should more precisely show customers what they're paying for. "There will be some ele-

ments of our software stratum. that will be bundled forever he said. "There will be others that will englan out and we'll allow customers to choose what they want or don't want " Chambers also said he

thinks that the way Cisco trests software new is ironic given that half of its engineers are software developers. He contrasted the company's approach with the ones taken by large software vendors.

"All the major software companies in the world charge maior amounts for uperades and regular things, and customers don't even blink about that." Chambous said Cisco bundles IOS with all

of its routers and switches, allewing users to download ungrades for free as lone as they sign a contract for one of the many technical support pluns offered by the company, said Zeus Kerrayala, an analyst at Yanker Grown Research Inc. Circo dose cell numerous

communications appliestions as well as network and security management tools, on an annual-license basis Rue Kerravala contended that the vendor is \*leaving money on the table" with its software products and said that it hired a pricing conert last year to help develop a software pric-

ing strategy If the company does start charging separately for IOS of other technologies that are now bundled, some users who are behind on software upgrades could see their own-all costs no un Korrauala said But, he added, costs could drop at some large Cisco shops that may now be pay ing more than they need to

EMC Plans to Bring Out **Data Classification System** 

New technology will incorporate acquired software

BY SHARON FISHER EMC Corp. late this year plans to ship data classification software that initially will work with unstructured information and eventually support databases as well, a company

executive said last week George Symons, EMC's chief technology officer for information management, didn't divuler the details of how the data classification offering will be packaged. But he indicated that it would ship in the fourth quarter and include technology gained from FMC's acquisitions of vendors such

as Legato Systems Inc., Documentum Inc. and Smarts Inc. Data classification software lets storage administrators set up policies so that data is automatically categorized by using a hierarchical storage data is assigned to high-end storage devices, and less im-

portant and infrequently accessed information is relegated to slower, cheaper storage Two EMC users said they are looking forward to the new functionality, despite the lack of specifics on how the storage vendor plans to offer it John Halamke CIO at

Harvard Medical School and CareGroup Healthcare System in Boston, said he believes that a data classification offering from EMC can help his organizations maximize their storage investments. Halamka said be plans to be an early adopter of the EMC technology.

Kenneth J. Kucera, CIO at First National Bank of Omaha said the bank will likely evaluate the technology, which he called a logical comitary to its tiered storage architecture.

EMC's plan to develop data classification software was first disclosed to analysts earlier this month by CEO for Tucci Symons said last week that the first version of the technology will focus on unstructured data such as text files, spreadshees and PowerPoint presentations. as well as semistructured files such as e-mail.

for technical support.

Brian Babineau, an analyst at Enterprise Strategy Group Inc. in Milford, Mass., sald EMC has all the pieces to create a data classification product but must now knit them together.

EMC already has a partner agreement with Arbivio Inc., a Mountain View, Calif. company that makes a data classification tool. But an EMC spokesman said the deal is unrelated to the company's in-

ternal development plans Stored IQ Corp., another data classification vendor. next week plans to announce

a partnership agreement with EMC that's also unrelated to the latter's product plans, said Dave Davenport, CEO of the Austin-based start-up.

### Cisco

any specific pricing plans, and company wouldn't commone

further on the marter ence said they were surprised by Clumbers' comments, and will further increase its prices

most expensive networking equipment and support see vices on the market

said Robert Fort, director of IT at Virgin Entertainment Group Inc. "But on the other

Chambers Says Video Will Drive

**Big Boosts in Bandwidth Needs** 

1000 HIS keynote so Cisco Networkers 2006, Cisco CEO John Chambers predicted a 2009o increase in workloads on corporate networks over the next two years because of the increased use of video technology

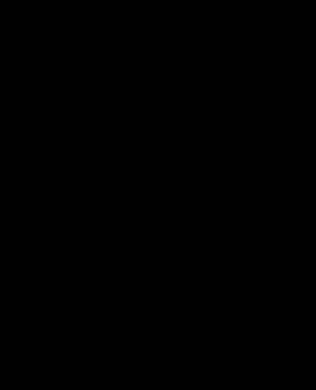
LASVEGAS

Chambers demonstrated how video of a baseball game could be captured from an IP network and viewed on room-size high-delina tion TVs. Companies will be able to use the same "telepresence" cape bilities for meetings, telemedicine and other uses, he said Claco later this year plans to ennounce more datalis about new technology that will support video applications, according to a comp

How soon the vision sketched by Chembers will fully materialion was a matter of debate at the conference. Yankee Group analyst rus Kermools said that the telence concept might not be videly adopted by corporate upon for at least five years

Said Brandon Buffin, a syste Imministrator at Ball Homes LLC in Lexington, Ky., "I'm using some ideo now, but [2009b] is quite an

- MATT HAMBLEN



# Cisco

good value proposition [for users]. Do we charge as much as we should, or as much as we could? Probably not."

could? Probably not."

Chambers didn't disclose any specific pricing plans, and a Cisco spokeswoman said the commany wouldn't comment.

further on the matter.

Several users at the conference said they were surprised by Chambers' comments, and some wondered whether Cisco will further increase its prices for what many users and analysts already consider to be the most expensive networking coulement and surnour ser-

vices on the market.
"My skeptical side wonders if this is a way to raise prices," said Robert Fort, director of IT at Virgin Entertainment Group Inc. "But on the other

hand, I wonder if there is some opportunity here [for more pricing options] that I don't know about "

Virgin Entertainment, a
Los Angeles-based subsidiary
of Virgin Group Ltd., uses
nearly 500 Cisco voice-overIP phones and related
gear in 15 stores and at
its headquarters. The
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lion and was installed last fall.

"We've done very well (on pricing), but Cisco is the Cadillac of networking." Fort said. He added that he shares the widespread perception that users may premium prices.

for the networking market leader's equipment and services. However, using Cisco's products instead of rival offerings that aren't as well sup-

ported may result in a lower total cost of ownership in the long run, Fort said. David Langford, vice president of technology at Smart

City Holdings LLC in Lake Buron Vista, Fla., said he likely would be opposed to paying separate fees for Cisco's Internet working Operating System (IOS) software and other products: "It depends on

how they do it, but on the surface, I'm against it," he said. Langford said that bundling IOS with Cisco's hardware makes

Cisco's hardware makes budgeting and accounting for networking projects easier for Smart City, a provider of communications services to convention centers. Chambers made his com-

er of communications services to convention centers. Chambers made his comments about pricing after he was asked whether Cisco charges too much for its products and services. In response, he said that customers have long benefited from performant in the control of the control of the products and services. The white we haven't done well," he added, "(is) we haven't charged for software with ongoing fees." Cisco lumps what it charges for much of its software into the cost of maintenance contracts, Chambers said, adding that the company should more

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Cisco does sell numerous communications applications, as well as network and security management tools, on an annual-license basis. But Kerravala contended that the wendor is "leaving money on the table" with its software products and said that it hired a pricing expert last year to help develop a software pric-

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for technical support 1

### Chambers Says Video Will Drive Big Boosts in Bandwidth Needs

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Figure County, ILL, said to recently received requests to you have no county received received received received selection who want to tearmed the vetter and stream claim cover wheat death versions cover wheat death versions cover received. Their would allow poster received to terramed images to experience to terramed images to experience to their first cover or death first cover or death for their first cover or death first cover or death for their first cover or death first cover or de

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MATT HANDLEN

# EMC Plans to Bring Out Data Classification System

New technology will incorporate acquired software

BY SHAROW PIBHER
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### GLORAL

### FC Sets Plans to Allow Continued Data Sharing

HE EUROPEAN COMMISSION last week detailed its strategy for lesting airlines continue to share data about U.S.-bound passengers with the U.S. government, a move necessitated by a recent court ruling In Furone that invalidated an existing

data-sharing agreement. The EC proposed that the European Union's 25 member nations formally renounce the current deal by month's end and authorize the commission to occotiate a new, legally sound agree-

ment with 115 officials For the past two years, airlines flying from Europe have been required to share names. addresses and other passenger data with the ITS government, which demanded the information following the terrorist attacks of Sept. 11, 2001, But the European Parliament challenged the May 2004 data-sharing agreement. and the European Court

of Justice in Luxemboure

ruled late last month

An International IT News Digest

that the deal was illegal on procedural

The court left the agreement in place until Sept. 30 to give the EC time to come up with a solution. The new plan-

excludes the European Parliament from the decision-making process. instead requiring approval directly by rhe FU's membership @ PAUL MELLER IDA NEWS SERVICE

### Nokia, Siemens Agree To Merge Telecom Units

OKIA CORP. and Siemens AG last week announced plans to merge their telecommunications infrastructure units into a joint venture

called Nokia Siemens Nokia and Siemens will each own half of the new company, which is expected to begin operating by year's end. At a press

conference here, officials said the combined onerations generated about €15.8 billion (\$20 billion U.S.) in revenue last year. They hope the joint venture, to be based near Helsinki, Finland, will be better able to compete worldwide against emerging networking rivals based in Asia The two vendors projected that the

merger will reduce annual costs by €1.5 billion (\$1.9 billion U.S.), including savings from layoffs of up to 7,500 of the joint venture's 60 000 workers M NANCY GOHRING AND STEVEN COMMANCEDT INCHESSES SERVICE

### **Auditors Call on NHS** To Track IT Suppliers

HF II K " National Health Service should terminate and replace contractors that don't meet deadlines for its massive health care IT system upgrade, according to a government audit report released this month. The recommendation from the National Audit Office reinforces efforts by the NHS to put pressure on contractors. for prompt delivery of products and

services for the National Programme for IT project, which is expected to cost £12.4 billion (\$22.9 billion U.S.) and take 10 years to complete. The NHS has warned that it will hold the prime contractors responsible

for delays caused by subcontractors and that It won't pay suppliers until technology is delivered and the promised new services are working . JEREMY KIRK, IDG NEWS SERVICE

Compiled by Mike Bucken

# Briefly Noted

W JOHN BLAU IDB NEWS SERVICE

HN RIBEIRO, IDG NEWS SERVICE

in last week said it place to rec

IBM Offers Prototype for Building 'Mashup' Apps

### Exec: Technology creates Web-based custom apps from multiple sources

GLOBAL FACT

IBM earlier this month brought out a prototype technology that uses Web services and wiki technology to quickly build customized "mashup" apolications that can blend external information, like news feeds and weather reports, with enterprise content and services IBM defines mashups as applications that use open technatories such as Asynchronous lavaScript and XML (AIAX). PHP scripting language and syndicated feeds to combine content from more than one source into a single application.

In an interview with Computer-

world after the announcement.

Red Smith, IBM's vice president of emerging Internet technolo-gies, talked about the penesis of the prototype, called Enterprise Mashup, and how IBM expects to use the new technology.

### What are the business drivers behind creating the protetype of the Enterprise Masterp product? As the Internet keeps evolving

we keep hearing how custom ers want to leverage it to build these informational applications. They are very timely and topical. When a storm is coming up the coast, how will that affect your business? One customer said a major factor in their business is the weather.

It was probably the second most important variable in their business, next to employees. They asked if we have a real-time weather service. We did a prototype for them based on their requirements

that showed [how their stores) could use the mashup. You could use a Google map to click on a store to see weather conditions and also show inventory You need to be able

to monitor things on a timely basis to make business decisions Folks say these things would he really beloful, but they don't bave any way to build

them now. Applications like that have been too costly to build from an IT perspective.

work? It is like wiring the Web. It is more of an assembler. We started looking at Web-based data sources like weather.

traffic and some that show building permits. With (Enterprise Mashup operatinglinside a however you could see a palette of these Web comopents, and you just

drag them on a wiki page. They automatically set the information and show it to you then and there. You've actually assembled it. It is not like traditional appli-

cation development. What is the technology behind the prototype? Web services. You wouldn't have this whole area of mashups if you didn't have [service-oriented architecture] as a backbone

Then there is Web 20 technology like AJAX and syndication feeds Someon can point to an RSS feed, and we will get it and put it in a format where they can put in one their [Web] pages. Underneath, we use some PHP technology and open-source wiki technology. It is immediate satisfaction as opposed to

normal application develop-When can IT use the Enterprise Mashup technology? As enterprise customers look at what is happening in the open-source world of mashup camps, they are describing these types of

ment (processes).

applications. Through their guidance, we will decide how we will incorporate this into future products.





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DON TENNANT

# Needing to Care

OW THAT the conflagration around the Bill Gates torch-passing announcement has subsided, it's easier to make a hype-free assessment of whether we need to care. My conclusion is that we do. But not for any of the reasons that have been bandied about amid all the fireworks.

Five or 10 years from now, when observers assess the impact of Gates' departure from involvement in Microsoft's day-to-day operations, the transition will likely be cited as a key factor in whatever will have

transpired to change Microsoft's fortunes between now and then. The connection may be legitimate. But it hardly will make a difference in anything that really

Love or loathe Microsoft, it would be difficult to argue that the company hasn't been a huge contributor to positive change in our quality of life in the 31 years since its inception. Yet at this stage in Micro-

soft's corporate life, the change agent is no longer an individual or even a group of individuals. The change agent is an amalgam of the company, its partners and its users. So it's not what Gates has shifted his attention from that we need to care about. It's what he has shifted

his attention to Amone who has read about the transition since it was announced on hane 15 knows that Gates is making the move so be can devote more time to the Bill & Melinda Gates Foundation But there's been virtually no coverage of the significance of the foundation getting that boost. We've all been too busy looking at the significance of Microsoft having a founder who's less hands-on. That bespeaks a twisted perception of what's really at stake here

Go to the foundation's Web site (www.gatesfoundariog.org) and you'll find this in the mission statement Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to reduce inequiti and improve lives around the world."



Last week, the Financial Times reported that Harvard University has been left bigh and dry

tunes were made in the IT tives appear questionable. Oracle CEO Larry Ellison comes to mind by Ellison, who in March 2005 com mitted to donating \$115 million to Har-



vard to establish the Ellison Institute for World Health. The Times reported that Ellison never paid up and that his advisers last fall brean linking the payment to the final settlement of an insider trading lawsuit brossel against Ellison by Gracle's sharehold-

ers. That settlement called for Ellison to donate \$100 million to charity in Oracle's name Then there's Ellison's own nonprofit organization, the Ellison Medical Foundation. Go to its Web site (www cllisonfoundation.org) and you'll find

this in the mission state "The Filison Medical Soundation supports basic biomedical research on aging relevant to understanding aging processes and age-related diseases and disabilities." Leave it to Larry to set up a foundation that's searching for the Fountain of Youth, I can't be the only one who has a hunch that Larry isn't crazy about turning 63 in

August. However, we can't let any of that cause us to dismiss the significance and relevance of what Gates stands to accomplish by being more hands-on at his foundation. Yes, we need to care about the transition. Positive change in what really matters is in the balance

### MICHAEL CADTENBERG

# Near-Perfect Laptop Gets Even Better

TRAVEL A LOT, logging more than 100,000 miles each year on planes. So I'm always in search of three things: a bulkbead aisle seat, a fruit plate and the best lapton for extensive travel While I rarely get the first two items on my list. I have found what I think is the ultimate lanton for road was

riore these days I've always liked the IRM Think Pad X Series: it's been one of my favorite lines of laptops since I discovered the fabulous X40 a few years ago. It was hard for me to imagine how Lenovo (the company that bought IBM's PC

business last year) could improve on what was already a pretty great product The answer is the new X60s notebook I've been using one of the new machines for a while now, and I'm totally impressed by what has been added Taken individually the additions may not seem like much but

added all together, the X60s becomes a whole new experience in mobile computing The X60s isn't the smallest, thinnest or most powerful notebook you can buy, but it is one of the most

usable, especially when you're on the road a lot. The keys to a product like this are attention to detail, and the balance of features with form - keeping things small and compact without compromising usability. At the end of a long day, every extra pound becomes a burden. With a slim design and a travel weight that's around 3 lb., the

X60s is a dream machine to carry. The X60s packs a new dual-core processor from Intel that's nice and

speedy, running at 1.66 GHz. Add in a 100GB hard drive (my older, 40GB laptop was starting to feel really

COMPUTERWORLD

# EXECUTIVE B**RIEFINGS**

# **End-to-End Storage Security**

EXECUTIVE GUIDES FOR STRATEGIC DECISION-MAKING

Critical data doesn't just live on your hard drive anymore. Here's how to protect sensitive information and documents, whether they're stored on a network server or on a flash drive in an employee's pocke

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# Securing Storage, Wherever It Lives

TORED DATA is everywhere in the modern enterprise, from the disk drives on application and With corner to the flash drive on a user's keychain. So are the threats to data from amateur backers to professional identity thicyes who seek to compromise data in the form of costomer re-

tual property and other types of electronic documents. Recause of these increasing throate and etrictor results tions imposing fines or other penalties for security breaches, storage security is now the concern of everyone from the board of directors to the product designer or sales ren creating a new piece of information. Their weapons in this fight range from networkbased encryption hardware to content-scanning software and enterprise rights mangerment (FRM) tools which incorporate access rights and security settings into indi-

### vidual documents. Rise of Encryption

To understand the need for storage security look on further than the headlines blaring the latest case of stolen or lost backup tapes. One highprofile company after another has suffered these incidents. causine untold embarrassment and possible losses of

been, not surprisingly, an upsurae in organizations en crypting backup tapes, so that even if a tape is lost or stolen. the information on it can't he used Driven by demand leading tape vendors have begun adding encryption capa-

backup software and their tage libraries It's not just cords, product plans, intellecdata on backup tapes that's at risk. Any data stored on any charana mo dium is at risk whether it's

on a storage

area network

employee's

notebook com airport. puter sitting in an airmort At the Dartmouth Medical School's Center for Evaluative Clinical Studies, operations director Vincent Pusca oversees nearly 7TB of raw medical data. While he says

cessful theft of that data, he's encrypting it to avoid a data breach that could cause the school to lose millions of dollars in research grants. Encrypting data on serv ers notebook commuters and even flash drives requires

extending encryption beyond the tape drive. On the server or the user's PC, this can be done through software that

encrypts data before it moves to the network or to a storage device. It can also be done by appliances that sit on the network and encrypt the data as it moves from the server to the storage device or to another destination on the network

medium is at

on a storage-

area network

a server or an

polls show that Any data stored on any storage are still not encrypting most of their data risk, whether it's include fears that encryation and decryption will slow application

employee's note book computer performance. that managing sitting in an encryption keys will be complex and expensive." and that a lost decryption key for the disap pearance of a certain vendor

or product from the market) will leave them with unreadable date connects to the internet Another obstacle is that various vendors apply enfocus on the data itself scancryption technologies differently and data may have to be decrypted and then reencrypted as it moves amone different levels of storage The decryption between, say a backup desire and a server creates a window of oppor-

tunity for the data to be compromised. policies and access controls New encryption technolon sensitive data buried in ogy is easing some of these unstructured data sets such as

concerns, such as appliances that use specialized processors to encrypt data at closeto wire speed for the speed at which data flows through the

Greater industry adoption of energytion standards is earing fears that customer does will be marooned if one vendor's encryption technology goes out of style, and new technologies are making it easier to manage encrypbuild encryption capabilities into notebook computers and flash drives that store sensitive data.

### Protecting End Points

Other approaches prevent sensitive data from being downloaded to or being used on end points such as customer PCs or handheld

Sophisticated management software can now lock down Universal Serial Bus ports or CD-ROM burners on client PCs to prevent them from transferring data to mobile devices Some notebooks ship with biometric authentication to protect access to the device itself A number of vendors offer a combination of soft ware and services that protect data on stolen notebooks or handhelds by retrieving and erasing the data on them the next time the stolen device

> nine content for sensitive terms and blocking the transmission of any information that should stay protected within the organization. An emerging class of dataclassification or information content management offerings promise to belo set

Some newer technologies

End-to-End Storage Security

text documents and e-mail In the long-run, much of the storage security load might be carried by FRM software. This requires users to classify data as they create it specifying its level of consitivity and the type of access that can be allowed to it. With ERM, the level of encryption and the access rights provided to a document travel with the document as it moves across the network or own

At least for the post few years, however, FRM acceptunce will be held back by questions about broad application support interconcrability across ERM products from multiple vendors and slow response times as users outside he comorate network wait to be authenticated by the

outside of it to customer or

business partners

corporation's FRM system Finally, ERM — like virtually any storage protection technology - is only as cood as the security policies on which it rests. For example, ERM requires clear, consistent and understandable data categories that reflect how an organization actually handles

Creating a security policy can be a daunting task because it requires an understanding of all the various types of information an organization stores and reaching acreement among all parties about how available versus how secure, each type of data should be. This process requires cooperation from users and managers across the

organization It also requires managers to focus on creating policies that focus on the most important throats are clearly understandable by all users and that are enforceablo Ensuring end-to-end stor-

sum recurity cometimes so

quires finding and prosecuting backers, or penalizing employees who didn't follow proper security policies. In those cases, security managers may need to understand general forensics rules such as handling the evidence as little as possible and establishing and maintaining a chain of custody, as well as computer-specific rules

information.

We're living in an eraim which compliance is forcing orgato protect certain types of information and documents. At the same time, there are more and more ways for this data to leave the office - rapging from instant messaging to USB drives.

And then there's old-fashroned paper to consider, Dumpster divmg. Iffect copying and faxes are how paper-based information can osses that can help organizations prevent the data from being printed out in the first place. They include permission-based ig and printing documents with watermarks and bar code in order to restrict and track the distribution of printed docs

RFID tags, which can be read by omnidirectional antennas mount ed on fring cabinets and other office equipment. While the system tion of important paper documents and manage inventory

such as never examining the evidence on the same system that created it.

Given all these requirements, storage security can seem like an impossible task. But by starting with an analysis of the needs of the business, security managers can create policies that explain to every user what data is most crucial and most in need of protection. Only then is it possible to choose the right technology for each storage security requirement.

In the wake of recent headlines detailing the loss or theft of customer records and other files, security of enterprise data has emerged as a top concern of IT shops everywhere. This report discusses the primary security pain points in enterprise storage setups - including desktop computers, tape, and even portable USB drives - and explains strategies that IT managers can use to lock down sensitive data and documents. Also included in the report are articles about endpoint security, encryption, data classification and managing document access.

FREE DOWNLOAD: "End-to-End Storage Security" For a limited time, get this full report (a \$195 value) for free, compliments of Sharp.

SHARP

End-to-End Storage Security www.computerworld.com/storagesecurity

# SHARP



If you don't take control of your data, someone else will.













cramped if I wanted to keep video on the hard drive for airplane viewing), 802.11 a/b/g. Bluetooth and a biometric fineerprint reader to keep things

secure, and you've got a pretry nice upgrade to the older X Series. But what really makes the new X60s special is that it has integrated EV-DO. Yes, integrated, high-speed wireless Internet access has now made it down to the form factor that I love, it's broadband everywhere. Add in eight hours or more of battery life for working

coast to coast (and up to 11 hours with an external battery), and you have a powerful computer that is pretty much

The keyboard is full-size and lives up to the excellent ThinkPad heritage. Some other nice touches are an integral ed LED that lights up over the keyboard - which makes it possible to work on a red-esy flight without disturbing seas. mates - and an excellent set of tools that can help ease disaster recovery. Is there a downside? Some folks

might not like the fact that there's no integrated optical drive, but that's a feature I rarely use except when loading software. Lenovo does offer a

docking station that lets you add an integrated optical drive, but it kind of kills the portability.

The 12-in. XGA screen is also a little small in these days of widescreen, highresolution offerings, and the X60s lacks 3-D acceleration, but that's the price you pay for keeping it small. Lenovo also changed the power adapters on its

new computers, so if you've invested in older ThinkPad acressories wor'll

need to upgrade. But those are quibbles. If you or any one in your organization spends a lot of time on the road and wants to stay connected without carrying a huge burden.

# the X60s is worth a look & More columnets and links to archives of previous

WANT BUR OPINION?

# READERS' LETTERS

### Dangers of Blindly Seeking Revenue

T APPEARS that Gartner is encouraging CIOs to join all the other executives on the revenue ration bandwagon ["Gartner to CIOs: Think Business Devel Computerworld.com, May 16], Two thoughts come to mind.

One, corporations should not revenue-generating strategies as part of a unified whole, not as a hre sale of whatever can be sold. Selling off oustomer information is a classic example of how a CIO can raise some quick money and land the corporation in long-term

Two, if a CIO has to constantly keep pulling rabbits out of his had to survive, maybe the CIO function needs to be eliminated. Either there are obvious benefits that justify a senior role, or the min is a creation that has outlived its

Prokash C. Rao Vice president/chief architect. Metadata Management Corn

Vienna, Va.

A Little Bit of Trust Goes a Long Way NOODED IN AGREEMENT AS I read To Manage the Smart

Guys, Set Them Free (Security soor's Journal May 221 (Ve found that letting your employe know that you trust them to come up with a solution often sparks their wity (and features to ext) It's amazing how often I've seen a ner appear in their eyes when ve said. "You're the specialist

that's the position you were have for. Tell me what you think is the best solution Miles Aconomia

Team leader systems development, Montreal

aragona@savageland.com

THES IS the exact approach I take with my staff of eight highly skilled and talented employees. I'm so plad that there are other manage ers out there with similar principles. Les Doosing

Enterprise systems administrative Yucaipa, Calif., deesing@verizon.net

C.J. KELLY'S article reely his my philosophy for leading software developers. I'm curious, though. whether senior managers ever question the value it provides. They see your team polyana outiems and getting things done but wonder how much you contribute to the results. Eve found it difficult to exactify or explain the value in

managing this way. Craig Harris Systems development manager, First Horizon National Corp.

Irving, Texas User Needs Should

Be No. 1 Concern N THE ARTICLE "Developer Takes Hits From Open-source Backers' (News, May 15), Louis Suarez-Potts, manager of Open Office.org's community council. says. "I see anything that extends

than anything in the KDE or GNOME environments, and it even had a fully functional Network Neighborhood equivalent Once the free (at the time) Wordthe life of Microsoft Office as prob-Perfect 6 for Latux was installed. lematic." This type of thicking is one you had the beginnings of a real

reason the OpenDocument format competitor to Windows 2000 Cover will have challenges. Not only is this Linux 12 (or Second Edition, as it attitude unreasonable and unrealiswas known) even had warants to Sc. 4's almost childish. And that has transfer user profiles from Windows. in I may

no place in business I'm a developer too, and I am passionale about what I do Rus that passion takes a back seat to user needs. Unless developers truly

understand their reason for bean they will have trouble with user acceptance.

San Francisco

Corel Remains Under Microsoft's Thumb HAVING LAMENTED Corel's meek surrender to Microsoft

over the OpenDocument format Don Tennant might now know how I felt when Corel abandoned what I considered to be the only Linux distribution that had a chance to compete in the merketolece, due to its both commerciality with Workeye ["As the Tirred Turn." March 6]. I had been very nieasantly our noted that Corel Lyon networked seamlessly with my Windows. network, with less setup then share would have been if the sys

The File Manager was excellent

If was much better, in my comion.

nty Numbers," Computerworld.com. May 151 tem was running Windows file and As the smale unious identifier printer sharing. It was much easier In this country. SSNs are used for to set up than the exemplest Red every application, from employee ID Hat or Mandrake distributions of numbers to tax reporting the time

Limiting the use of SSNs for identification would reduce the threat of their theft. A privately held credit and tax number, such as other countries have, could be used for more sensitive things. Other countres have multiple identifiers, some private and some public Brazilians make use of time different powers

ment numbers

most provising candidate

whatever way will benefit it.

John Kenara IV

Ponder Texas

Since then, I have thought of Corel

not so much as a company, but as a

or thosocially de beyeld great nward

Information systems manager.

iohokopuraiv@netscape.net

SSNs at Heart of ID Theft Problem

T IS OBVIOUS to any casual observer that Social Security

numbers are at the heart of both

identity their and day to day com

An additional sale identifier in this country would speak more to protecting citizens than it does at Big Brother.

**Bill Schaum** Then along comes Microsoft with Consultant its \$135 million investment in Corel Detroit and the next there you know no more Corel Linux, It's hard not to " HE SSN identifies our account think that this was a strategic move to stave off the inevitable erionism of desktop Linux by eliminating the

with the federal government, it should be used only for tax and Social Security reporting along with retirement transactions. It should not be used for commercial activibes or driver's licenses. Instead let each state issue an ID rant that can provide a commercial, public ID

number. This would now citizens a choice regarding participation. G. Milton Bullock, CPA Vice president of finance

and encorries AM Appliance Group Inc. Richardson, Texas. miltonbullochti атарріановующь сот

Unix at Apple's Core merce in the U.S. ["Congress Eyes PPLE HAS done such a good A PPLE HAS COM SULT & SOL Restrictions on Use of Social Secuto torpet that Mac OS X is really Lines with lancy clothes on ["The End of Unix?" Editorial May 151.

Mire Alexander

Ann Arbor Mich COMPUTERWORLD welcomes com ments from its readers. Letters will be edited for brevity and clarity. They should be addressed to Jame Ecide letters editor, Computerworld, PO Box 9171, 1 Speen Street, Frammoham Mass 01701 Fee (508) 879-4843 E-mail letters@computerworld.co Include an address and phone or anber for semedate verification



# Florida Guardian ad Litem Saw the Future of Child Advocacy. Citrix Provided Access.



and neglected critical in florida a strong advocate init court. They are still were well only on the season of well floriday, program staff, alternings and over 5,000 volunteers represent more than 27,000 children, incested of information in the drawners continued all over the staff was a floridary in the staff of t

JOHNNY C. WHIT

CIO Florida Guardian ad Litem Program

Access your future today at citrix.com.

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# TECHNOLOGY

### QUICKSTUDY

Model Driven Architecture is a method of writing specifications using platform-independent system models in the software development process. PAGE 32

### SECURITY MANAGER'S JOURNAL You Can Never Be Too Thin or Too Secure

C.I. Kelly takes inventory of what has been done to secure her state agency's network and assesses what still lies shead PAGE 33



### ORINION E-mail Insecurity in A Litigious Society

E-mail security is something no one can afford to overlook, and encrypting messages should no longer be optional. says Douglas Schweitzer, PAGE 34



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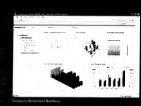
cial services firms traditionally punc tents or custom applications to heep up.

"There is a lot of effort required to build a framework that could perform and deal with lots of data concurrently," says Ed Thieberges bead of training technology at Bridgewater. Recently, however, Bridgewater and other financial services firms have found an alterna

ily tap into external data feeds or internal mes-sage queues. All the data the engine gathers is

held in memory to speed processing.
With data volumes increasing, organizations are running out of options for real-time processing. Financial services firms have little choice but to pursue stream processing because data quantities are starting to outstrip the capabilities of even custom-developed

"At these vols "At these volumes, traditional techniques on't scale," says Mike Stonebreaker, co-under and chief technology officer at Lex-gaton, Mass,-based StreamBase Systems In



Briskowater's custom C++ program could handle 18,000 messages per second - more than the 900 a relational database could support, but far short of the data volumes it faces this year. In contrast, the StreamBase engine handles 140,000 messages per second Stonebreaker says.

Having gained a following in tinoncial services, the emerging technology is beginning to spread to other industries that need to monitor operational data and interpret and respond to exents in real time. Businesses are us ine it in areas as diverse as compliance management, network monitoring and real-time fraud detection in telecommunications, retail and e-commerce Moum processing software is also deally suited to leverage message-based data flows within a service-oriented

inchinecture (SOA). "If your operationtion already has MO or other messageoriented maddless are then this is relatively straightforward," says Charles Nichols, CFO of SocWhy Software 1td. in Windsor, England. Users set up rules or time-based aseries that tell the stream processing engine what to look for The software then monitors one or more data streams and trimors the appropriate response when one of those conditions is detected.

To keep latency low, stream processing systems place data that must be retained in memory and discard everything else. Nothing is stored on disk. Streaming databases say, 'Let's not

try to store everything. Let's just watch everything as it flies by and keep running totals," such as the total number of transactions per second, says Fric Rogge, an analyst at Ventana Research Inc. in San Mateo, Calif.

At Bridgewater, Thieberger uses StreamBase's streaming technology to watch for delays in data feeds coming in from providers of market data. If one food falls behind, StreamBase immediately issues an alert and splices in the missing data from another source. "The total is very well suited to renne sent all of the rules we want to implement that lead to decisions about hose

NAGEG PLC in London has been us em processine software and a dash board provided by See Why Selfware for the past two years to track the status of ents of Guinness beer to the U.S. ously, shipments arrived from the factory to the port of departure in Engand with a nearly 100% on-time rating

port arrived at the U.S. warehouse on Andy Cullen, head of supply chair ne and experts, brought in Seeby, which gulls shipping data from the ny's SAP system, note "in flight s from shippers' Web sites and es in historical information on the er, seasonal factors, routes and

but only 50% of shipments that left that like SeeWhy allowed his organization to be more nimble. "If we'd both been have er criteria to undate the status and ct whether each shipment will be un

we are trading." Thichenger says. He measures the success of stream processing both in reduced development costs and faster time to market

We haven't had to build a framount that does what StreamBase does," he says. In addition, once StreamBase is pointed at the data streams to be measured, business analysts can construct queries using a drag-and-drop user

time. It also continually updates the currest overall on-time rating and predicts what the month-end number will be. Culion can drill down by carrier or destination to see why shipments are runni nd schedule. When the lowest-cost shipper in the slowest, analysts must

decide whether it's more cost-effective to use a faster shipper or expand inves in the U.S. warehouse as a supply buff But some decisions are easier to make For example, Cullen discovered that some higher-cost shippers were also slower than less-expensive competitors. "We've found ways of driving [the percentage of on-time shipments! from 50% to 80% this month, and we're consistently above

70%," he says. Cullen says organ try stream processing technology should have a clearly defined problem in mind and start small. Although Diagon now wants to expand the use of the technol one to its other business units. Cullen says solving a problem at the departme tal level first and working with a start-up

nies, it would have been very dif ficult to get this project going," he says, - ROBERT L. MITCHELL interface rather than rely on programmore. Thicherper says.

Stream processing also matches up well with another emerging technology: radio frequency identification. "Streaming is the only technology that can handle large volumes of RFID data that need to be analyzed on the fly? says Diay Nosamoney founder and CEO of Celeanest Corp., a business

intelligence tool vendor in Redwood City Colif The challenge with RFID tags is that they broade set the same data continuously, says lan Vink, IT director at

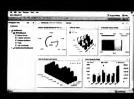
Bockhandels Group Nederland BV, a Housen Notherlands-based chain of 42 bookstores. When a pilot bookstore recently began checking in more than 1,200 books per day using RFID tags and a tag reader "tunnel," Vink used Progress Software Corp's Apama tool to filter out the proctitive messages and ensure that each book was received in the system just once. The 45 to 50 boxes a day the store receives now take a total of 125 seconds for incoming processing rather than the 125 minutes required before, says Vink.

The toughest part of the project wasn't the technology, however, "It was new for us to work with event streaminu," he says, "We were used to batch processing."

### **Moving Target**

Stream processing tools first arrived on the scene several years ago, having grown out of academic research at several universities, including professor emeritus David Luckham's seminal work on complex event processing (CEP) at Stanford University, Some Continued on page 29





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# Bill Hilf and Boyd Davis

From: Bill Hilf (Microsoft) and Boyd Davis (Intel)

Sent: May 1, 2006, 2:S1 PM
To: Information Technology Professionals

Subject: Windows Server 2003 and Intel 64-bit Servers: The industry standard

for mission-critical applications

We are the finded the fourth preservan enterprise companing. First there were mentiones when offeres companies the secretary of offeres sharing companies, Next cares the ext of microcompanies, which selected more companies, which selected more companies which selected more companies which selected more companies which was the operating systems with build selected or compatibility at the operating systems with the selected more companies and the selected more companies which were selected more considered and other performance and when selected more considered more companies with the contraction of the selected more companies and selected more considered more cons

As a result, the combination of Windows Server 2003 and Intel<sup>®</sup> Itanium<sup>®</sup> 2 processor-based 64-bit servers gives customers a cost-effective. robust solution for mission-critical applications. Microsoft and intel have worked together for several years on this enterprise-class server solution, and here optimized it for immining the most demanding enterprise vorbloads, which include transaction processing, data mining, business intelligence (IB), EPP applications, and externer scale help performance computing. This year marks an inflection point when 64-bit capable first server placeform will represent the majority of lent Eufortm schowers.

This combination has additional benefits, especially for users looking to replace aging RISC-based UNIX systems.

The Intel® Itanium® 2 micro architecture is a native 64-bit platform.

· Windows Server 2003 on Itanium-based systems provides scalability and reliability to rival established UNIX systems.

Intel® Itanium® 2-based servers running Windows Server 2003 offer many of the same capabilities and features as UNIX

· Virtually all UNIX-based commercial applications also run on the Microsoft and Intel platform.

Additionally, Microsoft has just launched Windows Server 2003 R2 x 64 Edition for Intel® 64-bit Xeon processor-based servers. These systems now include the ability to natively unr custom 32- and 64-bit UNIX applications and scripts, share files with UNIX systems, and provide centralized identity and security services for UNIX systems.

However, what really differentiates an Intel platform running Windows Server 2003 is what you get beyond what RISC UNIX can provide. A Microsoft and Intel platform offers substantially more functionality for lower cost, broader vendor choice for innovative solutions, and reduced completely.

At Intel and Microsoft, we have worked hard to make the combination of Windows Server 2003 and transum 2-based servers the most compelling mission-critical platform to date. We have also created new technologies and prosperies to make the transition from UNIX as easy as possible. We invite you to review the following pages to learn more about how our solutions have enabled CompUSA. Regrove, and others to transition to the higher value, lower cost Microsoft and Intel mission-critical platform.





# The Enterprise Computing Revolution

In the 1990s. Windows? running on Intel architecture computers was widely used for business deskton computing. A broadmarket emerged for Windows-based Intel architecture systems with a diverse selection of hardware and software solutions Microsoft and Intel recognized an opportunity to carry the success and affordability of "PC economics" to customers in the server world. Over the last decade, the Microsoft and Intel ecosystem has grown to offer customers a greater choice of hardware and software solutions, compatibility across systems.

and enterprise class reliability and performance-all at a much lower cost than LINIX

With the broad range of 32-bit and 64-bit processor offerings from Intel, Windows Server solutions can address any mission-critical workload.

Driven by this new hardware/software standard, over 65% of new servers now ship with Windows Server on Intel architecture hardware, according to IDC 1

# Windows Server 2003 and Intel 64-bit Servers: An Industry Standard for Mission-Critical Computing

Customers considering the Microsoft and Intel platform for traditional UNIX workloads are typically looking for comparable enterprise abilities and compatibility with existing applications

### Enterprise Abilities

"Enterprise abilities" refer to essential enterprise capabilities such as scalability and reliability. To address these requirements, Intel starts with the 64-bit EPIC (Explicitly Parallel Instruction Computing) technologythe cornerstone of the Intel Itanium architecture. EPIC provides 1024 terabytes of memory addressability and advanced parallelism canabilities. to address current and future scalability requirements of high-end enterprise workloads

Based on our primary research, Windows Server was the leeding platform for UNIX migration with 45% of the volume.

The Windows Server platform today has more ISV packaged. application support and market coverage from ISV suppliers than the Linux platform does. As a result, IDC believes that it is realistic to expect that Linux can tackle the full range of UNIX ng UNIX Migration: A Demand-Side View

att Eastwood, Vice President, Enterprise Services, IDC



Source ICC Quarterly Server Tracker, Februs

Microsoft Windows Server 2003 has been designed to ontimize both 32-bit and 64-bit architectures and can achieve record breaking performance in both scale-out and scale-up solution architectures

Windows Server 2003 running on an Intel Itanium processor system has long been one of the highest performance systems listed in the industry-recognized TPC-C benchmarks." In partnership with dozens of enterprise providers such as HP, IBM, Furtsu, NEC, and Unisys, server platforms ranging from single processor rack-mount systems to multiprocessor mainframes allow customers to achieve scalability to meet any mission-critical need with the flexibility they demand

Intel® Itanium® 2 processors also include state-of-the-art enterprise reliability features such as advanced hardware error correction and recovery, machine check architecture, and PCI Hot Plug. In addition, Windows Server supports features such as failover clustering, hotswap components, and RAID subsystems, enabling customers to achieve levels of availability surpassing even the most established legacy systems

Microsoft and Intel solutions can not only meet but exceed the enterprise abilities of existing UNIX solutions

# **Enterprise Application Compatibility**

Many of the applications that customers have traditionally run on UNIX systems-such as Oracle, SAP. PeopleSoft, and JZEE solutions-are now more often deplayed on Windows Server, SAP strips over 65% of their products on Windows and Intel server platforms 1 Even Oracle. once thought of as the database of choice for UNIX systems inow sells more databases on Windows Server than any other platform.<sup>4</sup>

When customers need to develop their own insistence/total enterprise applications, Microsoft's Visual Studen's and Insist software development tools can be used to apply build highly-scaable applications running on the Microsoft. NET plastom: Based on a revent study conducted by IDC, the Windows NET plastom is now the most popular plastom for mission-critical applications running inside companies—even more popular that Java.

"Microsoft's Windows Server operating system and servers using latels' high-end processors have progressed to the point at which they can now satisfy the most demanding needs in terms of scatability and railability. As a result, users in enterprise and obscares environments have the option of benefiting from the volume price points and a choice of hardware suppliers enabled by industry-standar performaor uptims. Alsysteing Business-Critical Applications from UI. Or Windows and Business'-Deserted Server's - Jensus-2006.



# New features for customers coming from UNIX

- Tony lane Ideas International

Customers want to leverage their investments in existing custom application code, cut down their project implementation cycles, and ensure enterpressible with executing infrastructure and corporate data in response to these demands. Morzooft has developed a portfolio of UNIX interopressibly solutions and now includes these with Windows Server 2003 R2, the latest release in Microsoft's server family \*For customers, this remains.

- Active Directory® can now be used to extend centralized identity management to UNIX users
   UNIX and Windows users can easily share files using NFS
- UNIX scripts and custom application code can run natively on Windows using the Microsoft subsystem for UNIX-based applications
- Developers can breathe new life into UNIX applications by extending them to take full advantage of Visual Studio, Windows, and NET interfaces.

# Doing more with less = increased business value

Companies are faced with shinking IT budgets and staff, while having to support an ever-growing relaince on technology. New technology solutions must provide rapid benefits for business in the form of increased productivity and cost savings. The Microsoft and linest serve platform provides a clear advantage in the areas of total cost of adoustion and ownership. "When we compared the TCO of Windows Server 2003 to Linux, we found a 20% cost differential in Microsoft's favor, and in this industry, in today's business climate, 20% is very significant, it's huge,"

- Keith Morrow, CIO, 7-Eleven



When it comes time to upgrade aging technology solutions. Windows Server running with Intel processors is a low risk, long term solution Most easing applications, crim on 64-bit. Windows platforms enabling you to leverage early intelligences in applications, people, and systems. Now you can not only host these solutions on a lower cost platform—your applications can be extended to trake advantage of key emerging areas such a collaboration. We servers, and mobility.

In the past, as interprise system have enclosed to allitheir higher of cradibility and includingly for configuration of the systems was interprised to the side of past) increased. To assers that have been also all management count have entire production and the second of management count for the count of the management count for the count of the country and countr

Based on a report from Management Insight, 77% of solution providers who were polled chose Windows Server as the platform they preferred to use for building solutions for their outstomers.

The Hanium ISV's acceptem gree from 3,000 applications in January 2005 to more than 5,000 in August and continues to grow at limite run rate, a clear indication of the strong endorsteament by the software community of trainium server Capacities. To Children Park Sponsovord by HP, "End Users' Feedback-Transform IT and Increase Sessiones Performance Through Invivine Devel Sender-Guarties."



"By choosing Windows ovar Linux for our new SAP solution, we'll save an estimated \$1 million in costs over the first four years. We needed performance, security, and reliability at a reasonabla price, and Linux would have presented greater risk in all those areas. I need a proven IT anvironment that I'm sure we can support.

- Rick Dempsey, Chiaf Information Officar, Rayovac



# Rayovac goes with Intel Itanium 2 Processors and Microsoft Windows Server System to meet their goals.

When Reyovec evalueted new pletforms for modernizing their HP-UX based SAP system, its goels were to reduce costs end increase reliability, performence, end security.

Rayonac chose a Unisys ES7000 server with Intel® Itanium® 2 processors running Windows Server System products. When compared to an electroabus solution running Linux and Oracle, the Microsoft and Intel solution was found to have major advantages.

Lower total cost of ownership. Rayovac expects to save almost
 S1 million in software, staffing, and support costs over a four year period with the Microsoft and Intel solution.

 Better reliebility end security. Since the solution went live. Rayovac has expenenced no unscheduled downtime. Rayovac used examp procedures for managing the solution and was able to address their security compliance needs.

 Reduced risk. Selecting proven solutions and established partners meant less potential for problems in the future. In addition, Microsoft provides strong indemnification protection against potential intellectual property claims.

DC See Will Mississ 2005 Moors. A Window power pet September curring the Section proteins or survival eventual value of users of thread one sermenter and pet TEC Generalizes. Add value internation in CSC Service May Moors. The Section of CSC Section Section in CSC Service May Moors and CSC Section Sectio

is information optimized in this document ingression, the current views of Microsoft proportion and confidence of the c With help from a trusted Microsoft partner, Rayovac was able to build a new solution that met all of their requirements

### Taking the next step

The time to move to Windows Server and field-bit technology is here. This year a majority of the present shipped by their will be 64-bit capable. Microsoft Windows Server 2003 is the platform of Ancore—Distillary and other server platforms combined by a factor of almost 2 to 1. Windows Server on intel<sup>®</sup> that will be a server on the fallent of bear costs, rock-sold reliability better scalability, distort time to market, and access to the largest beares solution ecosystem on the planet.

"CompUSA's vision is to be able to scale our data wavehouse to support our emploing growth. The Iteahina "B critical recovery and the support our employing growth. The Iteahina "B critical recovery and the support our behavior, to 22 and 64-way servers, a result of the Iteahina "processor-based HP Integritys server solution," numing Microsoft SQL Server on Microsoft SQL Servers (and SQL Servers) and support of the Iteahina "B continued to the SQL Servers of Microsoft SQL Servers on Microsoft

- Cathy Witt, Chief Information Officer, CompUSA



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Microsoft Active Directory & Filiar Visual Station Immidiates, the Windows logic Illindows for any other properties of the properties of t





Continued from page 24

vendors were spawned from those academic exercises. For example, Stonebreaker is both an adjunct professor of computer science at MIT and CTO at StreamBase. And Celequest worked with researchers at Stanford in devel-

ping its product. Most players in the market are small. and the technology is still maturing. says Philip Howard, an analyst of Bloor Research in Towcester, England. "None of the big boys have entered this

space yet," he says, but that's changing. Many of the start-ups have only a few customers today, says Gavin Little-Gill, an analyst at TowerGroup in Needham, Mass. He expects many of the vendors to disappear over the next two years as the market consolidates, new vendors jump in and stream processing capabilities are integrated into databases and other tools.

"A bunch of these guys are going to get gobbled up by the Oracles and Mi-

crosofts of the world." Little-Gill save Altrady Tibos Software Inc. hor launched its own product. Business Events, and Progress Software Corp. acquired start-up Apama Inc. last year IBM is working on two CEP projects: one called Active Middleware Technol ogy and another, from its Tivoli Software group, called Active Correlation Technology

In addition to using stream processing to detect and react to events some tools also feed real-time updates to a dashboard. "If there's anything that's driving this, it's dashboards " enve Rogge.

Going Beyond RAM At first blush, the dashboards present ed by stream processing tools sound a lot like business activity monitoring (BAM) tools, but the latter lack the ability to analyze data and perform event processing, says Jeff Wooton, vice president of product strategy of Aleri Labs, a Chicago-based vendor of stream processing technology Nonetheless, he sees the two areas converging, "Either BAM products will make use of event-processing products or they will start competing with them."

he predicts Maja Tibbling, lead enterprise architect at Con-way Inc. in San Mateo Calif. says that unlike BAM tools stream processing can measure what is not happening, which she says is just as important as knowing what is happening. The transportation company uses Tibco's BusinessEvents to track and plan pickups and deliveries and the activities of inbound and outbound trucks to ensure that transportation planners are working with the most up-to-date information

"In our rules engine, we need to know who cares about [an event] and how long they are allowed not to get [the information]. You can always figure out if something has happened. That absence of events is what's difficult to capture," Tibbling says.

Con-way recently moved toward an SOA as part of an effort to better integrate its systems, and BusinessEventa plays a key role in monitoring some 8 million events a day on the company's enterprise service bus. Events are published on the ESB, where processes that need to know about specific events can subscribe to them in parallel, "All of them, not just one stream, need to complete within a two-minute service-level agreement. If one doesn't lete, we need to know which one." Tibbling says. BusinessEvents triggers that

Cendant Corp. is deploying Celequest's Analytics Server to keep up with hotel reservation requests coming in from channel partners such as Orbitz LLC. "We wanted to know exactly what was happening with the business in real time " says Nick Forte diseases of application architecture. With more than 6.500 hotels to book Condent's systems handle up to 500 representations per second during peak times through vatious channels. Forte uses dashboards to monitor activity. Having an ESB architecture facilitated integrating

the tool with data streams, "An ESB makes it much easier to pluck that information off and look at it " save Forte-With the system set up on one channel. Cendant has already seen a benefit. During initial testing, the tool revealed that a few-hundred-thousand rate plans had no inventory allocated to them. As

a result, requests against those plans received an error code. "We kept telling them the product is not available." says Forte - a costly error. The dash board picked up on the problem, allowing staffers to quickly remedy it and

tus of electrical engineering at Stanford Lini-

wer of Events (Addison-Western

Professional, 2002) and hosts the

tile at www.complexevents.com. His

L. Mitchell about how the concepts

stream procession products

to solve? CEP was developed

ive with Computerworld's Robert

behind CEP house evolved into studen/e

ion was CEP de

from 1989 to 1995 to analyze event-driven

both herdware and nothware. Since then it's

been used by researchers to analyze various

refacturing and telecommunications, for

example. In 1995, I got the idea that you could

apply the CEP analysis system to avants that

applying it to the commercial middle-

were created in any kind of events measure.

So we decoupled it from the simulator and

systems, including industry standards in

Complex Event Processing Web

limit a potentially large loss of revenue The next step will be to expand the everem to all of Cendant's channels. Forte says. He also bopes to use the system to automate yield management "If we see occupancy rates going up on a property, we might want to trigger an event to send rates higher by some percentage," he says. Forte describes stream processing

and Cendant's move to an SOA as the first steps toward a more proactive approach to operations. "The ways of the future is predictive modeling," he says. But that's in the future. Right now Forte says, "we're trying to get all of the plumbing into place." The biggest challenge to stream proc-

essing may not be the technology but the change in mind-set that's remained to effectively use the tools. "The barrier is changing the way you think about the problem," says Tabbling, "In this case, it's how you think about business problems in multiple dimensions. How do you externalize what were besing does automatically? To put that in software is a difficult matter."

# wave that had grown up by that time or is event stream processing diff

from CEPT Event stream processing is focused more on high-speed querying of data in streams of events and applying mathematical algorithms to the event data. The first comstorcasi applications were to stock-market feeds in financial systems and algorithmic and Luckham is research professor errori | trading, CEP is focused more on extracting information from clouds of events created in versity. His work in complex event processing enterprise IT and business systems. CEP dehelped spur the development of today's stream | tects patterns of events, abstracts and simple fes information in the patterns, and supports went processing, is the author of the book The I making management decisions.

rocessing tools. He consults on complex unts not do wall? Very less of the

event-processing products of the moment use any relationships between events other than timing. Why is one process outling a set of products on sale and another retail process applymg (a second) promotional discount lowermo the price of that very same set of products? They're not coordi I noting properly. I want to understand why my processes are not communicating when they

al do stream proce

nulations of distributed systems containing should. Or I've got a trading process or set of trading processes, and they keep on terring out. Why is that?

When you get into these problems of burnness process design, you have to understand how events are related. You have to look at more than just the data in the streets of the event. You have to look at what coursed differ I ent events to happen.

# **Geeks**

# A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

### Semiconductor Brain: significant technological breakthrough. Employing the new technique, the biophysicsus were able Nerve Tissue Interfaced to variable the efficience of pharmaceutical comnounds on the named naturals maken the May

With a Computer Chip IN A PIONEERING DEVELOPMENT, scientists at the May Planck Institute for Reschampton in

Martinspect Germany, have coupled living brain house to a chip equipment to the processors that Refere information perceived by the manufacture

have it stored in long-term memory, it is temporardyplaced in the hopingamous. Understanding the role of the hippocampus in the memory process is a major foor: of current brain research. Thin

shoes of this bean remon provarie the material to study the reural network of the hippocamous. imaging methods

commonly used non-exphysiology are miasive are restricted to a small numhas all oads as sudden bear. low spatial resolution. The A then tissue slice of a screntsts at Martinsped. led by Peter Fromher

rat's hippocampus region (too) is rultivated on a have developed a noninreconductor chip. The thip mags the electrical varage technique that enactivity of the neuroce ables them to record neu-(bottom), caused by ral communication arriong activity of synapses. thousands of serve cells in the tissue of a brain slice and create an image. with high spatial resolution. The technique involves culturing thin slices of the hopocamous region on

semiconductor chins. The chins, developed in collaboration with Munich-based Infineon Technolooes AG, have a density of 16 384 transations on an area of 1 source milimeter Recording the activity patterns of the united

cell structure of intact mammalian brain tissue is a

# GROVES OF ACADEME

# Cyberuniverse Matches Astronomical Observations in Fine Detail

SCHEDISTS AT THE University of Chicann have boistered the case for a popular to of the bio-base theory that exshows how dark matter on invisible mate

state into the web of relow

model The China noded this work

that similar differences appear in the redata. In the early stages of evolution of the

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having a close neighbor of similar luminosity." ne rists that Krautora's toom or

survey and from the Slotte Digital Sky Surv

v said. "It wasn't net it would actually work so well



Planck institute's "brain chin" a powel test system.

An early an 1991. Fromherz and his co-workers.

succeeded in interfacing a single leach nerve

between a chip and small networks of molluscan

neces calls. In the current project, it was possible

synapses. The chips used in these studies were

developed by the scientists themselves, with pro-

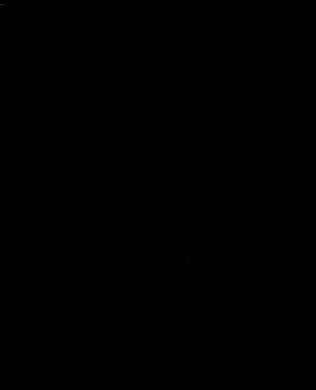
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duction assistance from private industry.

cell with a namenorshirter clan. Subsequent research own one to belenctional communication

for brain and drug research.





# **Geeks**

# A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

# Semiconductor Brain: Nerve Tissue Interfaced

With a Computer Chip IN A PIONEERING DEVILOPMENT, scientists at the Max Planck institute for Brochemstry in Martinsried, Germany, have coupled livers brain fissue to a chip equipment to the processors that

Before information necroswed by the mornovalian brain is stored in long-term memory, it is temporarby placed in the hoppocarrous. Linderstanding the role of the hinney arrows in the

memory process is a major focus of current brain research. This shows of this brain region prowide the material to study

the neural network of the Imaging methods commonly used in neu obesidos are morae are restricted to a small number of cells or suffer from

low spatial resolution. The scientists at Martinsped. led by Peter Fromher, have developed a nonin vasive technique that on ables them to record neural communication among thousands of nerve cells.

in the tissue of a brain slice and create an image with high spetal resolution. The technique involves culturing thin slices of the hippocampus region on servicanductor chips. The chips, developed in col laboration with Munich-based Inferior Technologres AG, have a density of 15,384 transistors on an area of I source milimeter.

Recording the activity patterns of the united cell structure of intact mammaken brain tissue is a sonificant technological breakthrough, Employing the new technique, the biophysicists were able to versalize the influence of charmacountries conpounds on the neural network, making the Max Planck institute's "brain chin" a novel test system

As early as 1991. From hery and his co-workers. succeeded in interfacing a single leach nerve cell with a semiconductor chip. Subsequent

behaven a rhin and small networks of molluncan norw cells. In the current project, it was possible to detect the signaling between cells via their synapses. The chics used in these studies were developed by the accordate themselves, with pro-

for brain and drug research.

research gave rise to bidirectional communication

duction assistance from private industry.

Memex Forges An Early Link



GROVES OF ACADEME







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Architecture (MDA) is an anneosch to tesus

ating real-world alanaish and lase computer code. It focuses on representing algorithms in a modeling language, followed by a possibly automatic translation of the models into computer code. Doing instice to the definition of MDA's innovation requires a short

potted history of computers Without instructions, or code, computers are just expensive heaters. One of the main problems of the Computer Age has been how to give computers instructions to translate human desire into

For about 50 years, the anower has been to code in terr based languages, all of which try to aid programming. The first of these text-based lanmapes was assembly, which is more human-readable than machine code, though it still requires a formidable understanding of how registers, memories and sometimes pipelined instruction fetches

Fortran, which stands for formula translator" and dates from the 1950s, was the next step in divorcing programme from a required knowledge of hardware. It hides the computer architecture of registers and presents a syntax that allows humans to concentrate on creating algorithms. Fortran incidentally fortifies the notion of free-floating subroutines and

functions Other third-peneration languages have offered varieties of abstraction from computer hardware, imposine rules and providing new ways for organizing algorithms and data. Type-safe languages have taken a stab at preventing programmers from making certain mistakes. Permissive languages, which allow easy casting of pointers, have enabled ners to do all kinds of marvelous thing - including stringing up their own coding nooses.

Different approaches to managing algorithms, such as structured programming and object-oriented program mine, have been developed. Programming languages that facilitate these paradigms have been created, and libraries of code have been pub-

A culture of best practices. which includes requirements analysis, peer reviews and modeling, has arisen to helo create software that contains fewer errors and is more efficient, reusable and portable.

# Model Methodology

Unified Modeline Language (UML) has been promoted by Object Management Group Inc (OMG) a Needham Mass based standards body that's maintained by a consortium of interested companies. It has become the language for modeling algorithms and has been adopted by the software com-

munity at large. Originally, an algorithm was expressed in UML before it was manually translated into a text-based language, which was then automatically compiled into assembly language

and machine code But that raised the question of whether the models themselves could be compiled into machine code, thus improving ways to think about algorithms and to produce software. Efforts to make the process simple and universal were the genesis of the naradiem shift that has led to

MDA

The OMG turned its attention from Common Object Request Broker Architecture to MDA with a white paper in 2000, beginning an effort at classification and standardization and in the process producine a new texicon. including core notions of the platform-independent model (PIM), platform-specific model (PSM) and Meta-Object Facil-

ity (MOF) UML has a role in MDA, but models do not have to be created in UML to conform to the OMG's MDA. Instead, both text-based and graphical lan-

DEFINITION

Model Driven Architecture is a way of writing specifications using platform-independent system models in the software development process. MDA focuses on the functionality and behavior of a distributed application or a system, not on the technology in which it will be implemented.

How MDA Works



guages must conform to MOF. which could be called a kind of mother language. (However, it's hard to say what came first; MOF was abstracted from LIMI and LIMI is one of MOF's best examples.) MOF is general and universal enough that the dispurate

companies that make up the OMG do not have to agree to use the same modeling languages. They only have to agree to follow the same principles.

After requirements analysis, ing in MDA begins with PIMs. These models are meant

to capture an algorithm but to ignore the computer hardware and software that will be used to implement them. The models are intended to be pure expressions of the algorithm. with the best division between design and implementation

PIMs are translated into PSMs in the next stage, "compilation," in which the algorithms are made more ready to run. PSMs have features that cor-

respond to the capabilities of hardware and software. In addition, PIMs may have been "marked" to facilitate this transformation Finally PSMs are translated into actual code. which will run on actual hard----on actual hardware

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### Automated Code

The vision behind MDA is to automate as much of the process of code generation as possible, leaving designers to focus on the algorithm instead. Using tools and languages that will make the design as good as possible, the implementation will come later and will have as little of the pesky interference of fullible humans as possible

If the underlying hardware or operating system is changed the model is simply "recompiled" or "retranslated" to work on the new system. If maintenance is required, the model serves as an accurate document of how the alenrithm works, and only the model needs to be maintained. The idea is that implements. tion and coding errors will be

minimized. Fear that this process will produce inefficient code is similar to the reaction when the compilation of thirderneration languages was compared to the direct writine of assembly code, which generated a fear that in many cases proved to be unfounded

The OMG lists several large rojects on its Web site that have successfully used automated MDA to produce efficient. successful code with fewer resources than would have been used in more traditional projects. These include work done for Wisconsin's Department of Workforce Development (see Blueprint for Code Automation," March 22, 2004), Postgirot Bank AR Looking Glass Networks Inc., Credit Suisse Group and others, #

Matlis is a freelance writer in Newton, Mass. You can reach him at imtgpcmcm@ petzero.pet. to learn about in QuickStudy? Send you ideas to quickstudy@computerworld.com a complete archive of ou

M Access: We use Active

Directory's security policies

to control access to resources

and systems. This includes ac-

cess to network multifunction

devices that provide fax/copy/

B Frencher When I feet

came to the agency, we had

but it has been expensive. In

my last column, I described

how I repurposed all-in-one

security appliances as single-

Wireless: Not allowed on

purpose tools. We paid too

@ Desicions: The operat-

or bardened. End users can't

install applications. We don't

firewall, but we keep all desk-

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desktop system automatically

apdates antivirus and antienv-

ing system is locked down

use Windows XP's built-in

much, but it works.

the network, Period.

no firewalls. We've purchased

print capability.

# You Can Never Be Too Thin or Too Secure

Our manager takes inventory of what's been done to secure her agency's network and what still lies ahead. By C.J. Kelly

SECURITY

curity strategy. I have to ask myself if we've done enough. Have we covered all the bases? If we haven't, do we have a work-around or some other risk-mitigation plan in place?

The best security approach is applied in layers. You can apply the layers from the inside out or the outside in, but most companies start from the outside, putting

firewalls at every entry point to the network. At my state agency, though, we work from the inside out

State systems are sprawling, When I came to work at this arency, the state-level WAN guys assured me that they had adequately protected the state network, including my agency. But when you realize how yast the network is, stretching to every state government office and university classroom, you wonder how secure it can be without assistance from the various agencies. And so we

have taken responsibility for the agency's security, working from the inside out. When you work from the inside out, the most important

protection you can provide is at the host level: servers. switches, networked primers and desktop computers. As networks connect around the globe, making it hard to say where they truly begin and end, this may be the smart approach. I can't control the networks we connect to, but I can attempt to control our entrance and exit points and

what mes on inside Mane's what we've been able to do: Servers: We have protected our servers by hardening them; keeping the operating system up to date, turning off

unneeded services, not installa ing unnecessary applications providing access on a need-toknow basis and making passwords industrial-strength.

B Paiches: Patch. ing is perhaps the single most impor-MANAGERS tant thing you can do in a Windows environment. Because we have a week to

test operating system patches before implementing them, that takes priority. and we do it after hours to minimize disruption.

Monitoring: We use software that allows us to cull event-log information from each server and review it in a single location. We can set up alerts based on certain chanees in the logs. We also have software that lets us moni tor services running on each server. If an unknown service that might be listening in on or

Things Still to Be Done So, what are we missing? Where are we weak? What can sending data over the network he exploited that we have not starts up, we are alcreed had the time, energy or funds

Servers: We don't run host-level firewalls or intrusion-detection and -prevention software. I just don't want anything to hinder the performance of production servers. Those ideas will stay on the back burner for a while

Access: Like many organizations, we have a file-sharing nightmare on our hands. While we control access-level permissions via Active Directory, everyone is approved to access everyone else's documents. We keen stressing the "need to know" concept, but everyone seems

to need to know everything. Access to the eveteme that house our agency's primary work requires several levels of approval. For comfortable with the security access levels but the systems themselves are outsourced. I have no visibility iggo the security of the vendor's environment, I worry about that, According to our contract, the wender must comply with federal security guidelines and regulations. I

have to leave it at that Metwork: We're still alcommercial firewalls for each lowing Telnet to be used to entry point, and I am drooling connect to our switches. We at the prospect of getting them ought to be using SSH, which installed. We run intrusion deprovides an encrypted session tection with sensors attached as administrators make neceseverywhere possible. We are sary changes. And the passgetting close to total visibility. words are weak and haven't been changed in some time.

B Decktops: I still want to implement some personal firewalls, but XP's firewall can't he managed centrally by the systems administrator

# Engrantion: This is the one big hole in our strategy. We don't encrypt e-mail transmissions, traffic between our assency sites, file systems or laptop hard drives. The new firewalls will provide IPsec encryption between our sites But there is so much more to do in the encryption area Thinking about it can be overwhelming. I just need to break it down into manageable

chanks and server is In the end, we've done a los from the inside out. We can do more, but we know that. We've given thought to our weeknesses, and in some cases, we have a plan. But I still wake up at night from time to time. thinking about how much

more there is to do 9 WHAT DO YOU THINK?

This week's journel is written by a real security menager, "C.J. Kelly," whose come and employer have been dequesed for obvious reasons. Contact her at macpletty? yahon.com, or join the decu security blook pome Start a commission persons of our Security

# SECURITY LOG

### Open-Source App Manager Upgraded OpenLogic Inc. has amount

in OpenLogic Inc. has announced OpenLogic Enterprise 4.0. The software, Isementy Isaawa as Blandflow, uses a new distributed interprises architecture that provides a central repeatory of approved, open-source products etitles a comporate Investal. It also enables users to automatically install, configure and sudit applications or mento servers and destinge, according to the Brownfluid, Code, -based company. The new version starts at abset \$300,000 for a troical or about 500 for a proical or about 500 for about 500 for a proical or about 500 for 500 fo

# Mware Adds

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# Patch Management Software Debuts

Ecora Software Corp. has treduced two products that are signed to help IT expanizations wer their IT security auditing of regulatory compliance costs, ere Patch Manager 5.0 lets repanies purchase bundled cits of software patches for as the at \$3 per node, according

company. The software autonation system discovery, patch sessement and installation for fiscenority patches. Ecora also introduced Ecora Reporter, a Vindews-based system designed o persectar openits in an inter on persectar openits in an inter of them against a staffield patients. Ecora Reporter is note! to be unded patchs, starting at \$15 or servery. DOUGLAS SCHWEITZER

# E-mail Insecurity in A Litigious Society

DON'T NEED TO TELL YOU that e-mail has changed the way the world communicates. I get more e-mails by far than I do letters delivered the old-fashioned way. That said, there's one aspect of e-mail that many of us overlook at our peril,

and that's the information we put in our messages.

E-mail was not intended as a secure means of communication. Whether you're an attorney, an accountant, a CFO, a chief financial officer or an internal auditor

even if you work at home or are retired — you need to know that what you put in an e-mail could one day become key evidence in litigation.

Remember that the vast majority of e-mails traverse the globe in an unencrypted format. This is analogous to sending a postcard via regular mail. Think about it: What's to stop your mail carrier (or anyone else in the postal delivery chain) from reading the messages you write on postcards? Unless you've written in some obscure language used by only a handful of people, nothing can stop such peeping. Yet e-mails

(containing information like account numbers, Social Security numbers and/or other sensitive and personal data) are passed around by millions each day with nary a thought to potential consequences.

And e-mails not only are vulnerable to snooping and contribute to a general loss of privacy; they have also become an increasingly used tool in litigation. The use of e-mail information as evidence in the Microsoft antitrust trial was just one of the most visible

According to Jack Seward, a digital forensic accounting technologist io New York, some users still believe that digital encryption of e-mail isn't necessary. They argue that e-mail carries

of privacy. Although that may have been true once, Seward warns, 'known technological vulnerabilities of unencrypted e-mail make this presumption so old wives' tale at best."

What about e-mail accidents? It is easy to have e-mail accidents? It is easy to have e-mail accidents are more common in important business and in important business and

the reasonable expectation

personal communications thao most people may realize. An e-mail message can be easily sent to anyone in ao instant — and there's no ope of retrieving it once you hit Send.

ao instant — and there's no hope of retrieving it once you hit Send. It takes just a single cerant keystroke or mouse cick to send a message to the wrong recipient.

Enterprise wore a mail will keen to the company of the company of

With password protection and encryption, a user can have some measure of security for misdirected messages. However, the best way prevent accidents is to teach users what to do when things go wrong, as well as bow to do it right in the first place. If possible, IT managers should also configure e-mail software so that the default setting produces the safest

outcome.

The million-dollar challenge is to decide which type of security strategy and encryption software to use, and to

determine whether it is prohibitively costly. A simple search on the internet will show you that there are dozens of products available, some of them at no cost — meaning no monetary issues should op; in your way.

It's important to note that when you're shopping for a product, you should match the protection provided for e-mail messages, systems and software to the value or sensitivity of the information that will be transmitted.

Generally speaking, it's best to use a centralized control for e-misl services. E-mail policies should be defined and should specify the level of protection to be implemented. Of course, if your company it using a secure channel like a VPN, your messages will be accure in transit, since VPNs typically employ some combination of digital certificates, trong user authentication.

and encryption to provide security for

the traffic they carry.

These days, many lawyers, account tants, actuaries, finaccial planeurs, medical professionals and others freely send critical personal informatio in an unencrypted format. It is imperative that this practice change, with organizations adopting policies for the safe and secure handling of e-mail. Educating employees about safe e-mail usage and delivery policies helps reduce the risk of intentional or

sit and upoo receipt.

Encrypting your e-mail will keep
your messages safe from all but the
most determined backers. Protecting
your intellectual property assets is
paramount, and those assets include
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when sending sensitive information

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Kurt Schlegel, featured Research Director, Gartner

Competing on Analytics
Thomas Davenport, President's Distinguished Professor of Information Technology and Management, Babson College

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# NAGEMENT



HOW TO What Do Users Want?

There's more than one way to get good user requirements. Business analysts like Andrew Ari Clibanoff at GSI Commerce offer some common and not-so-common methods you can try. PAGE 40

Sorry to Inform You, But We've Lost Your Data A double dose of bad news got Barbara Gomolski thinking about why corporations are losing so much customer data PARF 44

Managers' Forum

The business sponsor just won't follow proper channels. What's an IT liaison to do? Paul Glen offers some insights on that conundrum and more. PAGE 42

# BRIDGING THE CHINESE

numbers of

been making inrial motors and chanized pumps years in Reedshure Wis. The company

e to China just three years ago but already has twice as many employees here as it has at home.

Jonathan Funkhouser, who is general manager of Hankscraft's China operations

and who makes the top-level technology decisions, thought it was going to be hard to get all the government

approvals he would need in order to set up shop in China But that turned out to be the easy part. "Finding good employees and managers was the most difficult," he says.

That's not the only problem. Sale-ries have been climbing fast — 20% to

30% a year on average for IT managers, Funkhouser says. And turnover is high. During the past three years, be has hired five critical IT employees and lost three of them. "It's been a very challenging thing for us," he says. Finding people with specialized IT skills, such as in-depth knowledge of

secure systems, can also be tricky, says Celine Zhang, China human resources manager at Paris-based Hachette Despite vast Filipacchi Médias

SA. Hachette is the world's largest magazine publisher, with titles such as Elle and Marie suitable talent Claire and a presence in 39 countries

is hard to find Desnite widely read reports of waves of IT talent graduating from Chinese universities, the picture on the ground

is quite different, say businesspeople operating in the country. The truth is that in China, a good IT professional is hard to find, and good IT managers are



On the plus side, says Zhang, IT outsourcing companies have been coming to China recently, gradually deepening the talent pool. "There are quite a few IT consulting companies in the market now, and they have trained a lot of IT

personnel," she says One such company is BearingPoint inc., based in McLean, Va. Marthew Ding, a managing director for financial services at BearingPoint's Shanghai office, says firms like his also have to deal with the skills gan. Because the

IT consulting industry in China is only about five years old, there's a lack of experienced project managers, he says. Part of the problem is the Chinese educational system. Ding. Funkhouses and others observe that China's universities are heavy on theory and light on real-world practice, leaving employees to make up the difference.

Ding, for example, has had to become an interpersonal skills mentor He had to teach one manager to delegate, to communicate with his team members and not to tell others to shut up. \*Normally, we don't hire managers: we grow them." Dine says

But not every company can afford that luxury, and an inexperienced manager can delay a project or cause it to fail, he says.

That's one reason why salaries for IT managers are rising faster than entry-level wages. According to Pieter Tsiknas, director of the Beijing of fice of Shanghai-based recruiting firm SearchBank Ltd., experienced midlevel IT managers typically make between \$1.200 and \$1.500 a month, compared with just \$500 for an entry-level staffer.

**Tough Times for Talent** The convergence of three phenomena

in China's overheated economy is causing demand for skilled IT professionals to outpace supply, says Garry Wang, a consultant at Hewitt Associates Consulting Co.'s Shanghai office. Continued foreign investment in China, growth of existing multinational operations in China and the attempts of Chinese companies to go global are all

widening the skills gap. But there are cultural reasons as well. Many older Chinese, for example, have never experienced a market economy. They have never been in a comperitive

environment," says Wang. Moreover, studies show that Chinese employees of all ages are rarely qualified to work for a multinational company. According to a survey of 83 human resources professionals by the San Francisco-based McKinsey Global Institute, less than 10% of Chinese job

# Normally, we don't hire managers; we grow them.

candidates, on average, are suitable for work in a foreign company

In an October 2005 report, "Addressing China's Looming Talent Shortage," McKinsey blamed much of the IT talent shortfall on the educational system and geography. The report noted that among other problems, graduates lacked conversational English skills

and only a third of the L7 million Chinese who graduated from college in 2003 lived close to where the jobs were Moreover, foreign companies have to compete with globalizing Chinese companies for seasoned managers, and that demand will continue to outstrip

supply by a ratio of 15-to-1 over the next 10 to 15 years, the report says. Most in demand are Chinese IT maneers with experience working overseas. "Everybody shoots for the returnees."

says Tsiknas, noting that they have the best English skills, solid work habits and multicultural severy. "They bridge the divide between local and Western cultures and have experience that is not

# .anguage Barriers

easily gained here in China," he says The shortage of midfestel IT manacers has driven salaries in Beijing. Shanghai, Guangzhou and Shenzhen - China's leading coastal business

centers - up 8% to 10% per year. Wane says. Salaries in second-tier cities are generally 20% lower but are increasing at a higher rate, he adds.

Coping

Stoppap measures for handling the FT talent shortage can make things worse Posching from competitors, for example, is a much decried though common practice. "There is a tendency in China for employees to immo for relatively small salary improvements," says Linda Sprague, a professor of manufacturing and operations management at

China Europe International Business School in Shanehai. This is a three-part problem, she explains: The company loses an employee it has been developing, the IT person who jumps may never stay in one place long enough to become really experienced and productive, and salaries rise even faster

Another strategy is to tap overseas communities of Chinese speakers in Singapore, Taiwan and Hone Kone. who usually have excellent English skills and are used to working to Western standards in multicultural esseiron. ments. Because they are in demand, IT managers from Singapore and Taiwan - and especially Hong Kong - command the biggest salary packages, according to a 2005 compensation and benefits survey conducted by Watson Wyatt Worldwide Inc., a global human resources consulting firm based in

Arlington Va But additional costs, such as house ine expatriate workers and flying them home to see friends and family, doubles what a company would spend on a Chi-

nese employee, "Everyone is trying to scale back on these because they are expensive," says Wang. Multinational corporations have

one distinct advantage over domestic Chinese companies when it comes to attracting the best and the brightest: The sky's the limit as far as opportunities for advancement are concerned. Well-known companies such as Gene Electric Co., Siemens AG, Motorola Inc.

and The Dow Chemical Co. can attract good people if they have a regulation for nurturing employee success, Wang savs. That's because, at least in one respect. Chinese IT workers are like their counterparts everywhere. "Pay is usually not the key driver for astracting son employees," Wang says, "Many people are driven by factors such as career opportunities, training and education.

Employers that provide those extrasbuild reputations that help attract the best talent while drawtically reducine the cost of recruiting. "In a profession such as IT, where turnover is 25% or more, this cost can be significant?

Wang says Apparently, the approach is working for global soft-drink giant Coca-Cola Co. "We have no problems in astruction and recruiting skilled IT managers says Coca-Cola Asia spokesman Kenth Kaerhoes, 'Fortunately, the talent pool in China is increasing rapidly. In addition, we provide intensive training to

all new recruits." In terms of career opportunities, one of the most powerful lures is the promise of an international career development path. "It's a fallacy to think you can retain people purely on cash compensation," says John Ruthven, general manager of Asia-Pacific operations at Islandia NY-based CA Inc.

The software vendor is putting together plans for one- and two-year rotations through its Hong Kong office or other interastional locations for its Chinese employees "Overseas postings make them extraordinarily marketable and extraordinarily valuable to a multinational business operating in China," says Ruthven

And what about companies that can't afford to pay top rates or rotate people through elamorous international locations? They may have to set their siehts lower, says Samuel Ritter, a senior consultant at SSRG, an IT services permiden based in Shanghai.

"A lot of companies are forced to make changes in their requirements." Ritter says, "Where they were looking for 15 years' experience, they're lucky if they get five to eight. Where they want fluency in Chinese and English, they're lucky if they get just professional Chinese communication skills. Where they want a good personality and a team player, they may have to settle for someone with people issues." a

Trombly and Marcus are freelance business and technology writers based in Shanghai. Contact them at maria@ trombly.com and billinchina 2003@



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**Microsoft** 



# By Mary K. Pray

What Do Users Want?

# ANT TO COMPLETE A PROJECT SUCCESSFULLY?

That means getting requirements right, and there are as many ways to do that as there are business analysts charged with getting it done.

But impatience, miscommunication, misunder-tandings and overlooked users can produce require-nents that aren't clear or complete. "You want to have as little ambiguity as possible, because ambiguity creates defects," says Andrew Ari Clibanoff, a senior ness analyst at GSI Commerce Inc., a King of

russia, Pa-based provider of e-commerce services. Those defects can be costly. Ellen Gottesdiener, ripal consultant at EBG Consulting in Carmel,

ind., and author of The Software Requirements Memory Jogger (Goal QPC Inc., 2005), says that roughly one-third of the budget for a typical proj-

ect goes to fixing defects that originated in faulty requirements. The following tips will help you avoid be-

coming part of that depressing statistic.

UNDERSTAND THE OVERALL OBJECTIVE. "You need to have a point of reference: What is the strategy for the organization? What are they trying to accomplish in the medium and the long term? says josephine Day, director of customer care and technol-ogy at the Project Management Institute in Newtown

Square, Pa.

When the objective is clearly defined, you can iden-tify the right stakeholders and users, as well as which other programs could be affected by the proposed project - all important steps toward success, says Day.

helps reduce miscommunications, because attendeer can see draft requirements right away. Burk says. But don't rely only on this or on any other single information-gathering approach "There isn't one way to collect, communicate or verify requirements," she ways

Gottesdiener says common techniques include interviews, exploratory prototypes, facilitated workshops and plain old observation. Business analysts who generally gather requirements, should interview all the stakeholders, including the business leaders consoring the project, the project champions and

the people who will use the system to be developed Business analysts should also involve key etakeholders in workshoos. Gottesdiener says has show home to know who to involve and when to involve them. If the project team is still trying to develop a high-level vision, invite high-level stakeholders such as project sponsors. When it's time to "get down-and-dirty with

the requirements," she says, invite prospective users. Another way to gain useful information is by watching how business people currently handle the processes that the new project will address, Gottesdiener says. Apprenticing - that is, actually doing

the user's job - is a helpful technique for business analysts, she says, although it's not always feasible. Another creative technique is to get prospective users to write user manuals for the systems to be developed. This forces them to think about how they're going to interact with the system, resulting in a vision for how the product should work, according to Cottondianes

KNOW WHAT GROUND TO COVER, Although there's no one-size-fits-all process for gathering user requirements, it's important to know what ground you need to cover. That's why Peter Roggemann found a checklist helpful.

Roggemann, a retired IPMorean Chase & Co. senior vice president, was responsible for the project office there. His checklist highlights the following

# Flexibility: What things are users asking for now, and how might that change in the future! meetivity: Who needs this data,

and who will interact with it? Which other systems connect to the application being developed? In short, Roggemann says, "where does the data have to come from and go to?" ■ Process: What process does the ap-plication drive? "Often, people know

what's supposed to happen, but they doo't articulate it," Roggemann says. Help them do so.

" Capacity: What volume of transactions will the system need to be able to handle now and in the future? "That tends to be a blind spot for everybody." says Rogermann, who now more his own consulting firm. Profitable Projects Inc. in New Rochelle, N.V.

KNOW WHOM TO REACH - AND WHEN, "It's crucial to talk to the right level (worker) with the right knowledge at the right time," sans Rill Hagerum a senior facility. tor at Onellette & Associates Inc. in

Bedford, N.H. Higher-level managers can give you scope and big-picture perspective, while lower-level workers provide details on specific needs To do this, however, you might need to navigate some sticky political situations, says Shelley Cudly, a business analyst consultant at TD Ameritrade Inc. in Omaha She romembers working on projects where

one person said one thing, another said something different and a third said something else. "You have many different constituents, so who are the tin-breakers?" she sake "Know who the answer people are. This is where a business analyst's soft skills and office connections can pay off. Cudly says. She finds that

time spent with co-workers while traveling on business has helped her navigate some situations that could otherwise have been more difficult. Hagerup says business analyses should socialize with their business clients - go to hanch or play golf together - to build up the rapport

needed to handle power struggles that inevitably come up. USE ANY AND ALL CHANNELS. Doo't limit yourself to official chan-

nels. "I have some great resources who aren't even on a project that help me find the gotchas," Cudly says. She often contacts a senior manager on the business

side who, she says, "has the right kind of analytical brain." Cudly asks him for his insight on bow a project will affect others or the names of managers with whom she should most

WALK A MILE IN THEIR SHOES. To really understand what a user needs, develop empathy for the husiness clients. "See it through their eyes," Hagerup says.

When he was a senior pr at Burger King Corp. in the 1970s. Hagerup was part of a team developing the systems that are ubiquitous at fast-food restaurants today. He was required to work in a restaurant for one week every year, and he says he still remembers the perspective he enhand from it. "In gave me a much better appreciation for the nature of the work," Hagerup erry "They have to do a lot of stoff and they have to do it four "

DO A WALK-THROUGH BARNE ly. Clibapoff needed to eather was requirements for a software program that would bein GSI's retail clients ship internationally with greater ease. To get a better sense of what was required be worked with a newgram manager for customer service and an operations manager in the shipping group to create a hypothetical customer living in England who wanted to shop with two specific

online sporting retailers. Clibapoff had the two managers present the scenario during a workshop with other stakeholders, who walked through the transaction and discussed what the software needed to do to handle it. "It's sort of starting from the end and working backwards," he says, adding that when the process is complete. "you have some really great requirements you can validate."

ASK, ASK AGAIN, AND THEN ASK ONE MORE TIME. "Be an information-gathering skeptic," says Naomi Karten, principal of consulting firm Karten Associates in Randolph, Mass. "Take nothing you hear at face value. No matter what you bear, assume that you may not be understanding what they meao.

Challenge your assumptions. Ask questions and more questions." If this sounds inefficient, Karten stresses that it's not. Ruther, it below draw out all the information needed to compile user requirements.

Cudly says analysts need to tan into their people skills to do this effectively. She routinely asks the same person the same question, although

she tries to phrase it differently so that she doesn't apnoy anyone. Because she also asks the same question of different people, she tries to be diplomatic, saving, "So-and-so told me this, but I'm not sure I understand. Can you explain it?" or, "I talked to so-and-so, but I want to talk to you about this too." Cudly doesn't stop there, however, At the end of in-

terviews, she asks, "Is there something I'm not asking that I should be?" That kind of open-ended question can elicit crucial information that you might not otherwise think to ask about, she says. "You hope," Karten adds, "that each interview ore-

sion will add another piece to the puzzle."

Prott is a Computerworld contributing writer in Waltham, Mass. Contact her at marykpratt@ written.compet.







USF ALL YOUR TOOLS. Susan Burk, a systems architect at Massachusetts Mutual Life Insurance Co. in Springfield, Mass., promotes the use of "selfdocumenting facilitated workshops" to compile user requirements. "Get the people in a room lwho and

empowered to make decisions, have a good facilitator. have a good scribe, discuss requirements, and at the end of the session, it's there," she says. This areason by helps reduce miscommunications, because attenders can see draft requirements right away. Burk ways But don't rely only on this or on any other rimole

information-gathering approach. "There isn't one way to collect, communicate or verify requirements," she says. Gottesdiener says common techniques include interviews, exploratory prototypes, facilitated work shops and plain old observation. Business analysts, who generally gather requirements, should interview all the stakeholders, including the business leaders sponsoring the project, the project champions and the people who will use the system to be developed.

Business analysts should also involve key stakeholders in workshops, Gottesdiener says, but they have to know who to involve and when to involve them. If the project team is still trying to develop a high-level vision, invite high-level stakeholders such as project sponsors. When it's time to "got down on Lifery with the requirements," she says, invite prospective users. Another way to gain useful information is by watching how business people currently handle the

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### KNOW WHOM TO REACH - AND WHEN, 'It's crucial to talk to the right level (worker) was the right knowledge at the right time?

says Bill Hagerup, a senior facilita tor at Quellerte & Associates Inc. in Bedford, N.H. Higher-level managers can give you scope and buy picture perspective while lower-hand work ers provide details on specific needs To do this, however, you might

need to navigate some sticky political situations, says Shelley Codly a business analyst consultant at TD Ameritrade Inc. in Omaha, She pomembers working on projects where one person said one thing, another said something different, and a third said something else. "You have many different constituents, so who are the

tie-breakers?" she asks. "Know who the answer people are This is where a business analyst's soft skills and office connections can pay off, Cudly says, She finds that time spent with co-workers while

traveling on business has helped her navigate some situations that could otherwise have been more difficult. Hagerup says business analysts should socialize with their business clients - go to lunch or play golf together - to build up the rapport needed to handle power struggles that inevitably come up.

USE ANY AND ALL CHANNELS. Don't limit yourself to official chan-

nels. "I have some great resources who aren't even on a project that belome find the gotchus." Cudly says. She often contacts a senior manaper on the business

side who, she says, "has the right kind of analytical brain." Cudly asks him for his insight on how a project will affect others or the names of managers with whom she should most

WALK A MILE IN THEIR SHOPS To really understand what a user needs, develop empathy for the business clients. "See at through their eyes," Hagerup says.

When he was a senior programmer at Burger King Corp. in the 1970s, Hagcrup was part of a team developing the systems that are ubsquitous at fast-food restaurants today. He was required to work in a restaurant for one week more



who osens the agh the bettle says Naom Karten She has seen actors can suppress free ch - and good user reands. Were have a tone your from them it's on-

of mostlence or the wrong ing to still what other people say," says Karten, principal of dun geralik nunning a workshop where participants

broke into groups of three, with one playing the role of an IT works, the second refina at a raidsmer and the fried observing the interaction. One Customer' errorted that the IT rson periodically took does leading her to rush through her ists because she took that as a stensi of impatience

to talk. His workshop gartner said that that facial exervison over him the enversues year, and he says he still remembers the perspective he gained from a "ti gave me a much better approximation for the nature of the work," Hagerup says. They have to do a lot of stuff and they have to do n fag."

DO A WALK-THROUGH, Recents is Cliburast needed to gather user requirements for a software program that would help GSI's retail cheats. ship internationally with greater case. To get a better sense of when was required, he worked with a program manager for customer service and an operations manager in the shapring group to create a hypothetical customer living in England who wanted to shop with two specific

unline sporting petailers Clibanoff had the two managers present the securno during a work shop with other stakeholders, who walked through the transaction and discussed what the software needed to do to handle it. "It's sort of storting from the end and working backwards." he says, adding that when the process is complete, "you have some really streat requirements you can validate."

ASK, ASK AGAIN, AND THEN ASK ONE MORE TIME, "Be an information-gatherine skeerie," says Naomi Karten, principal of consulting firm Karnen Associates in Randolph, Mass, "Take nothing you

hear at face value. No matter what you beer, assume that you may not be understanding what they mean. Challenge your assumptions. Ask questions and many ansertions." If this sounds inefficient, Karten

stresses that it's not. Rather, it below draw out all the information powhed to compile user requirements. Cudly says analysts need to ran into their people skills to go this ef-

fectively. She routinely asks the same person the same question, although she tries to ohrase it differently so that she doesn't annoy anyone. Because she also asks the same question

of different people, she tries to be diplomatic, saving, "So-and-so told me this, but I'm not sure I understand. Can you explain it?" or, "I talked to southfree but I want to talk to your shout this too. Cudly doesn't stop there, however. At the end of in-

terviews, she asks, "Is there something I'm not asking that I should be?" That kind of upen-ended question can elicit crucial information that you might not otherwise think to ask about, she says,

"You hope," Karten adds, "that each interview session will add another piece to the puzzle."

Pratt is a Computerworld contributing writer in Waltham, Mass. Contact her at marykpratt/st verizon.comnet.



# MANAGERS' FORUM



I'm acting as the liaison between the spensee organization and the IT department. The spensor always goes around me directly to other people in the department. How can I get him to work through me as he is supposed to?

First, you've just to accord the temperature not represent the notary to simply, endough policy, when it was the notary to simply endough the notary many people in history orders will try to many people and the notary of the notary to the process and procedure as a bladgeon to dromp a client into compliance. The ratery works and itsually makes though worse, mercasting the frequency of the between before its processing before the processing before the processing before the processing the process of the between the processing the process of the processing before the processing the proce

of the bryosong behavior, some pollout nearly toenforce policy apetiting others in the department to collide to avoid contact and then reject the sponsor's overtures when widdlines fails. This, too, miles things worse. The sponsor becomes frustrated with both the laissen and the rest of the department.

All of this looks to a sponsor like spoiled children stomping their feet. complaining that they are not "doing things the right way."

Serve moved to think carefully, and deptisionately, shout why your expensive is doing this. Of course, that, softer and more leving inproved probably feels in done, leving inproved probably feels like a constant slap in the face. Decomposition to the internal and to be at cloud your indignated about the situation. Soft it may pay to a kind, of your colleagues about their observer times of the relationship and why they think this is happening.

extrained reasons that this occurs. Become No. Fortrus, I that to say it, but the most common reason Face of served for spournes to depose Balsons with the down trust to depose Balsons with the down trust with I feels so structurally, For spouses, channeling all communications with I feels with I feel as a single point of falling. And the more corrected IT is set their suctions and the more compelled they are to seek additional relativeships are to seek additional relativeships to the seek additional relativeships.

sure their access to services.

I think that there are three common reasons why spansors don't trust their haisons. They question their competence, their insentints or both.

If sports or squestion a liabson's abilny to understand their needs or to negatitate whilsh the IT department to per their respects tilled, they go around the person. If this is the case, you need to figure out how to build credibility

slowly, over time.

Spinnors petierally question the intentions of their liaisons more from a structural than a personal view point. They may feel that the purpose of the haison role is to isolate them and keep them controlled. If this is the case, you need to figure out how to reassure your spousor so he understands that you are there as his advocate and not as a bul-

wards for L.

Reason No. 2: Prior relationships.
Sponsors who are used to tail perhaps have been looply with a more emmeshed H concisionment have executed to the prediction of the property of the composition of the hard to odly people that they should be also used to odly people that they should be also used to self-used to the them. They should be also used to self-used turnifier.

The stableton shift of relationships are disconsistent to the stable of the property of th

doesn't work now well. If this is the case, won need to work regradually channel more communications through you need to make the passon. Resistant No.1 letter service: From though they may trust their futurous, many sportors, know that they get what they want faster when they counter they would faster when they counter they technical people directly. They leave technical people directly, they send call them who they oull reside in our way to the un unested of up until though my meet.

channels.

This is the one case where you might need other people to help you channel requests appropriately. Again, slow woming tends to be a hit cooker than

> I work in a small company, and a peer here can be quite abusine toward his staff. One valuable person has quit, and another may leave soon. What can I do to help for this manager's anger management

problem?
Sulfs, probably not much. When others have temperature its ill-stated in immagement, you only help them until the are ready no forly help them until the are ready not help them such the are ready problem, your relings in machine, but problem, your cliling him about it will problem; but then it will problem be able to help out the company, and the valuable employees who are being abused. You can lend a

company and the valuable employees who are being abused. You can lend a ready car to his suffering underlings. And if you think that sumeone who is an asset to the company is about to quit, you can quietly work to help him well an internal transfer author than particle employment.

assistic enjuryment. George School (probably) your on, it had infortunately is probably your on, it had infortunately is probably not a great option. He lifely carl't help beyond removing this person from management. But if the already knows about your peer's abovice behavior and has done mething, he may be shomed by your evenformation. He had to have the behavior and the control of the properties an above, then you have a different problem— with your bases commercency.

# READERS TALK RACK

More on Project Managers and Sponsors

I think you missed an opportunity to discuss "the project manager as politicism." I know we think of politics as a bad word, but only because we look at the regative aide of it. Politics is simply the act of

influencing people, and that can be for good, as well as for self-interest. Not peting people to do what not to be done and not having "control" over them was frustrating the letter winter, and that says that he er she needs to learn some influencing (i.e. political) skills.

political) skills.

Most leaders in most helds have not had direct control – cartainly not at the beginning. They attained their results through their about to influence That's what project managers need to do, and if they can't or don't.

ence. That's what project managers moved to da, and it they cann't or don't they won't succeed. This other question is a version of the old chastime. "Only you have to know he subject on day you have to know he subject on day you have to know he will be succeed to the you have to know he will be succeed to the your day you got to the your day you got to fear to be your day you don't have to be your day you do not have to be your day you have you do not have to be your day you have y

Paul

He Paul, New managers, and many seasoned managers, need to consistently audit how they are framing the internal conflicts that difficult structures con bring up. The ority thing you can renally after its your view of the situation and your reaction to it. Your personal theority must light the way. — I He was the properties of the properties of the properties of the properties.





Evely exchange of ideas with IT managers, I'll

questions, and some of your nses will run alongside in

'm acting as the liaison be her people in the de How can I get him to work through me as he is supposed to?

First, you've got to avoid the temptation to try to simply enforce policy. When faced with a recalcitrant sponsor. many people in listeen roles will try to use process and procedure as a bludpeon to bring a client into compliance. This rarely works and usually makes things worse, increasing the frequency

of the bypassing behavior. Some go all-out to try to enforce policy, getting others in the department to collude to avoid contact and then reject the sponsor's overtures when avoidance fails. This, too, makes things worse. The sponsor becomes frustrated with both the liaison and the rest of the department.

All of this looks to a sponsor like spoiled children stomping their feet. complaining that they are not "doing things the right way." So you need to think carefully and dispassionately about why your sponsor is doing this. Of course, that's easier said than done. Being ismored probably feels like a constant slan in the face. It's easy to take it personally and to let it cloud your judgment about the situation. So it may pay to ask a few of your colleagues about their observa-

tions of the relationship and why they think this is happening. In my experience, there are a few common reasons that this occurr-Reason No. 1: No trust. I hate to say

it but the most common reason I've observed for sponsors to bypass liaisons is that they don't trust them, personally or structurally. For sponsors, channeling all communications with IT feels risky. They have a single point of contact, but also a single point of failure. cess, the more risky the relationship

And the more central IT is to their sucfeels and the more compelled they are to seek additional relationships to ensure their access to services

I think that there are three common reasons why sponsors don't trust their liaisons: They question their competence, their intentions or both

If sponsors question a liaison's ability to understand their needs or to perotiate within the IT department to get their requests filled, they so around the person. If this is the case was need to figure out how to build credibility

Sponsors generally question the intentions of their lisisons more from a structural than a personal viewpoiot. They may feel that the purpose of the liaison role is to isolate them and keen

slowly, over time.

them controlled. If this is the case, you need to figure out how to reassure your sponsor so he understands that you are there as his advocate and not as a bulwark for IT

Reason No. 2: Prior relationships Sponsors who are used to fand nerhans have been happy with) a more enmeshed IT environment have existing relationships with many people in the department, it's hard to tell people that they shouldn't talk to those with whom they have been comfortable or are at

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The sudden shift of relationships just doesn't work too well. If this is the case, you need to work to gradually channel more communications through you rather than try to isolate the sponsor.

Reason No. 3: Better service, Even. though they may trust their liaisons many sponsors know that they get what they want faster when they contact the technical people directly. They learn who the soft touches are and call them up instead of point through proper

channels This is the one case where you might need other people to help you channel requests appropriately. Again, slow weaning tends to be a bit easier than rigid policy enforcement.

I work in a small company, and a peer here can be quite abusive toard his staff. One valuable perso has cult, and another may leave soon. What can I do to beln fix this ager's anger management

Sadly, probably not much. When others have temperaments ill-suited to management, you can't help them until they are ready to bein themselves. If

your poor doorn't realize that this is a problem, your telling him about it will probably bring his ire your way. But you may be able to hele our the company and the valuable employees

who are heing abused. You can lend a ready ear to his suffering underlings. And if you think that someone who is an asset to the company is about to quit, you can quietly work to bein him seek an internal transfer rather than outside employment.

Going to your peer's boss (probably your own, too) unfortunately is prob ably not a great option. He likely can't help beyond removing this person from management. But if he already knows about your peer's abusive behavior and has done nothing, he may be shared by your confrontation. If he hasn't coticed that your peer is an abuser, then you have a different problem - with your boss's competence.

# READERS TALK BACK

# Are YOU being PAID what you're WORTH?

FIND OUT when Computerworld publishes the results from its 20th Annual Salary Survey of IT professionals!

How much are other IT professionals with your experience and credentials earning? With help from you and your IT colleagues across the country, Computerworld will answer that question when we deliver the results from our 20th Annual Salary Survey.

Please take our survey now and enter a drawing to win one of 10 Apple iPod Minis. Our survey period closes Friday, July 14, 2006 at 5p.m. Eastern time.

Survey results and feature stories that offer practical career advice will be published in the Nov. 13, 3006 issue of Computerworld. It will offer detailed information on average salaries and housses, broken out by title, industry and region. You'll be able to compare your organization's compensation plans with those of other companies and find the hottest areas of the country for 1T pay.

To take the survey, and qualify for the drawing, go to: www.computerworld.com/salary2006?src=H



SALARY SURVEY

# **FXFC TRACK**

**Dates Annointed CIO** For City of Boston Seston Mayor Thomas M. Mr

ino has announced the appointment of WILLIAM 6. OATES as the city's CIO. Oates was non senior vice president and CIO at Starwood Hotels & Resorts

### CIO to Lead Bank Innovation Office

The Bank of New York Co. box created a new unit known as the hoe of Innovation to accelerate the pace of product innovation roes its securities serv uses. The office will be ded by CIO KURT WOETZEL who has been promoted to the ten of senior executive vice sident and continues to reinks. The Office of Innovation will support attempts to acceler zation of new product

# Silva Marned IT VP At Golden Eagle

SUE SILVA has been pro to vice president of IT at Gold Eagle Distributors Inc., the son. Ariz,-based distributor of weer-Busch Cos. produ She joins the executive strategy un, which directs corpo

# erformance Fibers

Performance Fibers Inc., a clobal us named JAMES A. JOHR Il vice president and CIO. John son joins the Richmond, Va.ed company from Honeys enal inc.'s specialty he was an IT director.

# **DBL Distributing** Picks Rough as CIO DBL Distributing Inc., a Sc dale. Arty -based wheth

arror electronics ac ries, has appointed JOHN ROUGE BARBARA GOMOLSKI

# Sorry to Inform You. We've Lost Your Data

IKE MANY OF US. I read with dismay the news that personal information on millions of U.S. veterans had been stolen. What made this story even more poignant is that I recently had my own brush with a similar security breach.

Picture this scene: It's late afternoon on a warm day. I have just returned home from running errands, bogged down with packages and my mail. I'm juggling my parcels and am a bit overheated

Along with all the not-

so-important stuff in the mail is a letter addressed to my husband and me from a professional society to which he belones Mind you, this is a society for individuals who are in the accounting/auditing profession. The letter tells us that a computer hard drive - one that happened to contain our personal ioformation - has rone

I announce the news to my husband in the next room, garner some kind of grunt from him and proceed through

the rest of the mail Next. I see a notice from our bank, which holds our checking account and the mortgage on our house. What do they have to tell me? It appears that a laptop they were shipping was stolen en route. Unfortunately, said laptop

contained all the goods on my spouse I tell my husband, "You're not going to believe this," and regale him with the news. This time, he actually looks up, shakes his head and mutters some-

So, in just one day, I received two letters from organizations that are considered stalwarts in their respective industries informing me that they may have inadvertently unleashed various

formation into the world I should point out that both the association and the bank assured me that the chances that any harm would actually come to me are slim, since both systems were apparently password-protected Still both entities ad-

pieces of my personal in-

vised me to monitor my credit report very closely for the next few months just in case. (I would like to suggest that they consider taking on that task, since the situation is their fault )

What strikes me as ironic (other than receiving both of those letters on the same day) is that we're out talking about large-scale backs into corporate networks or intricate scame to sniff network packets. Both of these breaches involved the physical loss or theft of PCs or IT components, and both could have been prevented.

These incidents were the result of a failure on the part of these organizations to track, protect and hold on to their physical IT assets. Almost on a daily basis, I hear CIOs say that their asset tracking and man-

agement systems are not up to snuff. As a result, there are some IT assets - often 10% or more - that are not even appearing on the radar screens of IT organizations

PCs or items that individuals have purchased using their expense accounts. They may be systems that have been retired but not disposed of. They may be hardware or software sitting in a closet in someone's office.

Asset tracking and management is not a sexy subject, and it's not something that most CIOs see as a way to score big points with top management. But IT assets have great corporate value because of the information contained within them, and the con-

sequences of not tracking them can be significant Even so, many organizations treat

them as disposable commodities that don't need to be secured If you haven't already done so, get a handle oo asset tracking and manage

ment before you find yourself writing a "Dear Customer" letter. Here are some suggestions ■ Specify policies for IT asset pro-

curement and security, and communicate them often to employees. Assign asset tracking and manage-ment responsibilities to someone in

your organization. Don't forget to include hardware and software assets when taking

 Use asset tags for physical devices. Recognize that IT assets have a useful life (or life cycle). Track and

monitor where assets are in that life cycle. Develop a technology disposal policy that aliens with your organization's overall compliance and risk plan. By employing sound asset tracking and management, organizations can

improve their ability to protect customer information. Until they do, we are all going to he getting letters like the ones I received.

# **WANT OUR OPINION?**

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# HOW TO CONTACT

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(301) 585-8543
(610) 532-7566
ORS
(508) 820-8120
(506) 820-8562
(500) 620 7729
(506) 620-618

REPORTERS	
Sharon Flaher Streeps disenter recovery	(200) 922 5633 buttness continuity
Mott Narobles Networking mobile/weeks network/pystems manager	
Heather Revenetals	(910) 386-0381

74	Eric Lai	(200) 169-50.00
40	Windows, Linux desklop a databases, financial service	ets industry
96	Linds Resonctance General assignment trans- automobile industries	
	Carol Sthea Habanal correspondent	(500) 820-4720
20	Mare L. Songlet EFP supply chain and CRN RFID retail food and apply	(508) 620-6182 A applications.
52	Patrick Thibudeau	(292) 333-2449
29	Enterprise systems, time a minigration, antifract mount	refrourcing and
	Jaikunar Vijayan	(630) 578-6350

Todd R. Weins	(717) 560-5255	
General assignment, operational assignment, operational assignments, many	n-source community.	
	saging constrained	
FEATURES		
Ellen Faming	(508) 820-8204	
Special projects editor	and the second	
Thomas Hoffman	(845) 988 9630	D

		Pri
ner.	(508) 820-8264	Se
n n	(845) 988 9630	~
	(500) 620 8177	No.

	Production designer	(50
20-1204	Spean Cahill Associate order productor	(SC
100 5630	Peter South Web development manager	

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	(508) 820 826
	(206) 366-2566
	(106) 820-8216
	(506) 820-8039
cto	(508) 271 7122 indensigner

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iy 271 7122 ir	I
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58	RESEARCH Mari Keele
33	Research manager
	Occasio Williams
10	Research associate
	************************
••	COPY DESK
10	Michele Lee Del'Hippe (506) 620 Minaging editor/troduction

	Managing editor/production	(200) 050 4150
•	Beb Rawson Assetsel managing addresses	(508) 271 8015 oduction
	Esques Damaftrs, Mont Senor copyeditors	sa Samhetere
	Corts Dempany, Bonna : Copy editors	benness
	GRAPHIC DESIGN	
	Stephanic Fauster Design director	(508) 820 8235

Stophanie Faustier Design-director	(508) 820 8235
April O'Conner Art director	
Ower Edwards Associate an Grecter	
ADMINISTRATIVE S	UPPORT
Linda Gorgono Office manager	(506) 820 6176
CONTRIBUTING FO	TOP

Claimons
CONTRIBUTING COLUMNISTS
Michael Bartochery, Paul Blos.
Barbara Gemeleki, John Kalanska,
Thereton A. May, David Moscholia.
Brans & Stewart
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# Continued from page 1 Novell

pian joined Nevell in 2003. "Ron is a much more dynamic individual than lack " Biomer said. "He had no qualms about netting on the corporate set and flying out to meet us. Jack times seemed pained to have a conversation. No of-

fense to Jack, but I'm surprised he made it as long as he did." COCC has been a Novell customer for the past decade. Biernat said his company moved more than 60 servers to SUSE Linux Enterprise Server three wars are because of Novell's plans to buy the technology.

Good Impression The chief technology officer at a large, nonprofit health care

provider that uses SUSE Linux Enterprise Server and Novell's identity management tools said he has met with Hoysepian a half-dozen times.

'I'm impressed with Ron's vision of the company and his understanding of the marker said the CTO, who asked not to be identified. He added that Howsenian "has an execution presence. He engages well with executives of larger customers. He doesn't see us as a

burden." The CTO said Hovsepian probably should consider dropping Novell's GroupWise e-mail and collaboration suite because it isn't competitive with rival offerings anymore. He added that he would like Novell to move much more aggressively to provide certified nteroperability and support for a full stack of open-source

software on top of SUSE Linux. Hovsepian said during a teleconference that Nevell will continue to pursue its current product strategy, including Linux and its traditional flagship NetWare, as well as identity, data center and security management tools. But, he added, he will focus even mon resources on Linux technolo-

Novell is not Microsoft.... They are going to have to make some hard decisions that will likely make some customers unhanny

BRENT BIERNAT, ASSISTANT VICE PRESIDENT OF NETWORK SERVICES, COCC

gies than Novell has thus far. "As CEO, my top priority is to accelerate the speed and urgency behind our transition to I inurchased products \* Howsenian said. The acceleration effort may include some acquisitions, particularly ones involving management tools. he said. Hovsepian also plans to start requiring users to register with Novell when they buy SUSF Linux in an effort to make it easier for the company to sell add-on services

Hovsepian, 45, was named Novell's president and chief operating officer last November, after previously running global sales and services. In so interview last week. Hoysepian - who earlier spent 17 wars at IBM — said Novell employees had "been requesting the right leadership for a period of time"

(see Q&A, at right). Messman, 66, became Novell's chairman and CEO in 2001, when the company bought Cambridge Technology Partners Inc., the IT consulting firm be was running. However, the acquisition never met expectations and Mouellin May sold off its Celerant Consulting unit - the remnants of CTP - as part of a corporate

restructuring plan that was appounced last fall. Novell said that Messmao will step down from its board at the end of October. The company last week also ousted Joseph Tibbeets Jr., its chief

financial officer, and oamed an interim CFO while it searches for a permanent replacement. Laura DiDio, an analyst at

Yankee Group Research Inc. in Boston waid the only rue. prise about Novell's decision to change CFOs is that it took so lone. Messman "clearly took over a company whose glory days were behind it "Diffic noted Even so "the bottom line here is that he was not syrring the job done," she said. Linux and open-source were supposed to be Novell's surjoe

and that hasn't happened." Chris Stone was Messman's second-in-command and war widely considered to be the beir apparent as CEO before he abruptly left Novell in

November 2004. The board's action last week was "lone overdue " said Storms who now is the CEO of software vendor StreamServe Inc. in Barlion. ton. Mass. "I think gutte honestly that justice prevails."

"Novell has eved technology but pert to no porto-market strategy," said Forrester Research Inc. analyst Michael Goulde, Hoysepian, he added appears to be a good choice to "nossibly out that to place"

The new CEO has a stronger operational background than Messman did. observed Stacey Quandt, an analyst at

Aberdeeo Group Inc. in Boston. That should had a wall for users unhappy with Novell's recent inability to execute on its plans Owands and

Rudy Fhisch systems technical support director at Canon USA Inc. in Lake Success. N.Y., lamented that Newell focused too much on yaporwave of its BrainShare user conference in March "Tell me what you're doing, not what you're point to do " Flyisch said. But if Novell can deliver on all the promises, "it will be great " he added "We're not spring anywhere."

# loard 'Saw What Needed to Be Done,' New CFO Says

FRANK HAYES • FRANKLY SPEAKING

# Security = \$

ECURITY MEANS MONEY. If you have any confusion about that, consider the survey results released last week by accounting firm Deloitte Touche Tohmatsu (you can find it online at deloitte.com/tmtsecurity). According to the survey. technology, media and telecommunications companies are doing a mediocre job at best of dealing with IT security issues.

But that's not the point. The point is that these money guys did an in-depth survey of security at 150 companies in this sector. Deloitte just did a similar survey on IT security at biotech and pharmaceutical companies, and Deloitte's fourth annual survey of financial companies' IT security should be out any day now.

If that doesn't wake you up, then you don't understand your CEO. Let's be cynical and assume that your CEO

doesn't really care about IT security. Let's guess that he doesn't care about the impact of a security breach on business operations, on customers and on your company's reputation. Let's assume that he really only cares about one thing boost-

ing your company's stock price. (Actually, that's not so cynical. Plenty of lovestors, and big shots like The Conference Board. believe that's all he should care about )

Now here comes Deloitte, the kind of accountine firm that stock market analysts pay attention to. And Deloitte says IT security is important. Important as in bottom-line, dollars-and-cents. important. Important enough that the accountants are digging into it on an industry-byindustry basis

That's the kind of research that gets stock pickers tu take their own looks at specific companies and their IT security. And when stock pickers care about IT security, your stock-price-obsessed CEO will start caring deeply about it too.

As long as we're assuming, let's assume you've been trying for years to get the budget you need to really step up to the security challenge. But it's always been the toughest sell imaginable. There's no measurable return to show on a security investment. The whole idea of improved security is that it should measure as zero; no break-ins, no lost customer data, no public embarrassment, no dollar value to report as a loss.

How the heck do you sell that to the boss? You can't. And you haven't. But suddenly your CFO is very receptive. He wants IT security. He wants it now. He's willing to pay.

That's a dream come true, right? Not unless you can deliver the right kind of IT security

- the kind that helps push up the stock price. Focus on the wrong areas so your company still scores badly on security with investors, and you'll be worse off than you were before. Your dream will turn nightmarish: You'll lose that se-

curity budget, lose credibility with your CEO and maybe lose your naycheck, too. What can you do? You can start now to pre-

note an IT security improvement program that will make your CEO happy and meet the rest of your company's needs Beein by paring over those Deloitte survey reports. Deloitte's analysts are especially concerned about phishing, pharming, internal misconduct, employee training, encryption and busi-

ness continuity. That means you should be, too, Even if you don't buy into their priorities, those are the things you'll be graded on Now add the security issues you've already identified as important for your company. Then

stitch together a plan that's guaranteed to pry loose money from your CEO because it directly addresses thines that will affect what he cares about: the stock price.

Is that a cynical cheat? OK, maybe it is. Here's your choice: You can keep banging away fruitlessly, or you can use cynical cheat to get your organization the kind of IT security it needs.

You can sell your CEO on security if you sell him the right things. lust remember: Security means money, the kind of money your CEO understands.

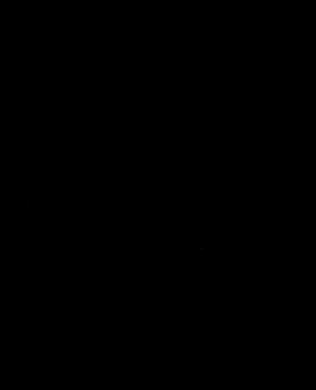
And now you understand it, too. .

Malfunctioning Parts

Something's wrong with this optical mouse - or is it the PC? "The cursor would be OK for a moment or two, then it would leap to an unpredictable extre of the screen "says pilot fish who tries swapping in an identical replacement. Same problem. "In frustration. I gusted the mouse away from me and onto the desktop. And then it behaved, I looked at the mouse met. It was a nice, pale-gray color with delicate changes in hue and a logo in th., center. Who would we thought that, in an entire PC, it woul,, he the ouse mai that was malfunctioning?

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FRANK HAYES . FRANKLY SPEAKING

# Security = \$9

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And now you understand it, too. >

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Julia King, Executive Editor, Events and National Correspondent,
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8:45am to 9:15am

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